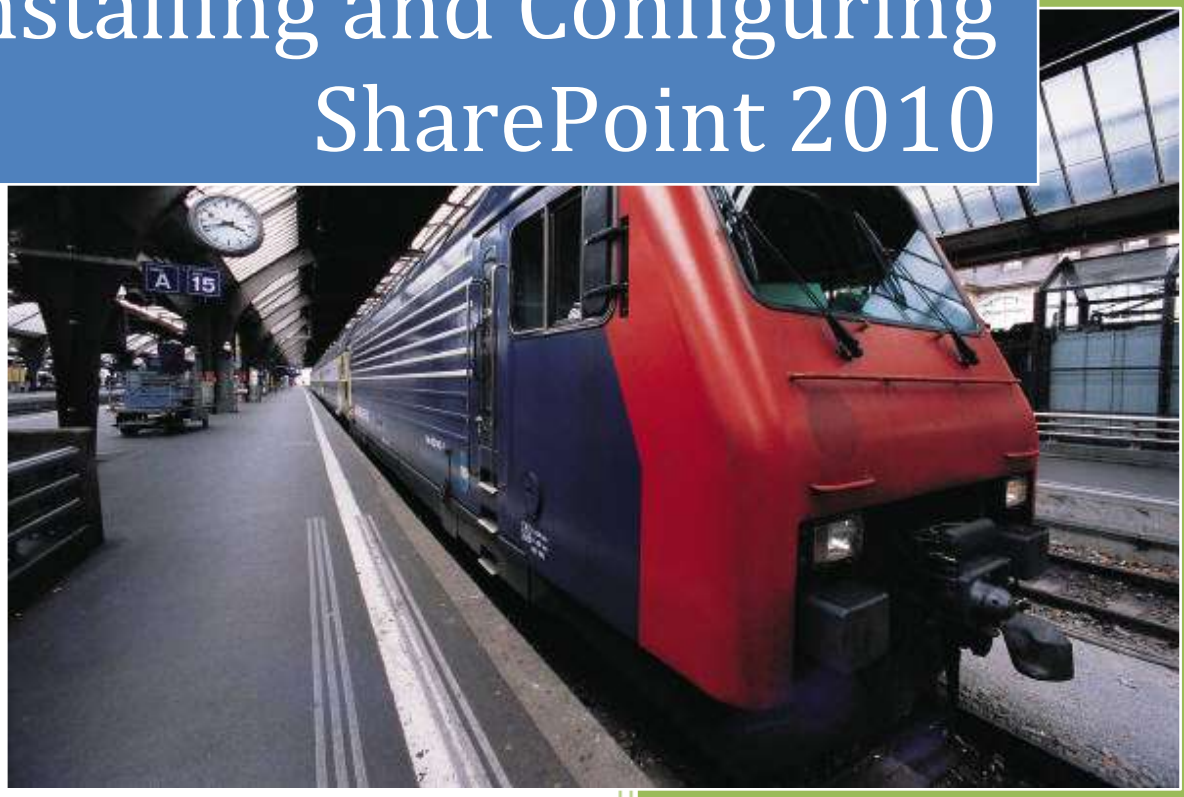
User Guide

Installing and Configuring SharePoint 2010



Saifullah Shafiq

Installing and Configuring SharePoint 2010

User Guide

Saifullah Shafiq

Installing and Configuring SharePoint 2010

Copyright © 2009 Saifullah Shafiq

ISBN: 978-1-4276-4536-4

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form, or by any means (electronic, mechanical, photocopying, recording or otherwise) without the prior written consent of the publisher/author.

While every precaution has been taken in the preparation of this guide, the publisher and author assume no responsibility for errors or omissions, or for damages resulting from the use of the information contained herein.

Trademarks: Microsoft, SharePoint, and SQL Server are registered trademarks of Microsoft Corporation in the United States and/or other countries. All other trademarks are the property of their respective owners.

About the Author

SAIFULLAH SHAFIQ is a SharePoint consultant. He started working with SharePoint technologies 6 years ago. He started his career as a web developer 11 years ago. His community work started with the start of his career. He started writing programming articles in 1999. His work has been published on 62 programming related web sites. He has also written for different IT magazines.

Saifullah is a MCP (C#), MCTS (SharePoint) and MVP (SharePoint). Saifullah runs a SharePoint usergroup that has over 450 members.

Table of Contents

Introduction

Prepare your machine 1

Install VMware 1

Install Windows Server 2008 3

SharePoint Requirements 3

Install SharePoint 4

- Install WCF Hotfix 20
- Install SQL Server Pre-requisites 21
  - Install .NET Framework 3.5 Service Pack 1 21
- Install SQL Server 23
- Install SQL Server 2008 Service Pack 1 46
- Install Cumulative update package 2 for SQL Server 2008 SP 1 52
- Download and Install ADOMD.NET 57
  - Download ADOMD.NET 59
  - Install ADOMD.NET 59
- Download and Install Geneva Framework 2 Beta 60
- Download and Install Microsoft Sync Framework v1.0 62
- Download and Install Microsoft Filter Pack v2.0 63
- Download and Install Chart Controls from .NET Framework 3.5 64
- Download and Install PowerShell v2.0 CTP3 65
- Download and Install ADO.NET Data Services v1.5 CTP2 66
- Download and Install Silverlight 3.0 67
- Install Application Server and Web Server (IIS) roles 68
- Download and Install SharePoint 2010 74

Configuring SharePoint 103

Introduction

This step by step guide shows how to install SharePoint 2010 on VMware workstation 7.0. Each step shows a screenshot that would help users to better understand the step. Host computer used during the preparation of this guide was a Vista (32-bit) machine. Guest machine used was VMware workstation 7.0 with Windows Server 2008 Service Pack 2 (64-bit).

Prepare your machine

Is your machine 64-bit compatible? Download following standalone utility from vmware.com that will check if your processor is 64-bit compatible or not:

http://download3.vmware.com/software/wkst/VMware-guest64check-6.0.0-45731.exe

If your machine is 64-bit compatible then second step is to confirm whether Virtualization Technology (VT) is enabled or not. To enable 64-bit support for virtual machines in VMware, you must enable Virtualization Technology (VT). VT provides greater flexibility and maximum system utilization. With VT, your machine will make the most of its underlying hardware. You can enable VT in the BIOS by going to advanced processor features and enabling Intel Virtualization Technology. The VT setting is locked at power on. After enabling VT in BIOS, save changes to the BIOS settings and then turn off power to the system. Your changes take effect when the system is turned on again. Simply rebooting the system without turning it off will not enable VT. This is called as power cycling the system.

Some laptops require a total power discharge to enable VT once you have set it in the BIOS. To do this, disconnect the external power, and remove the battery from the laptop. Then press the power button on the device to drain all power. Once this is done, replace the battery and reconnect the external power, and verify you are able to utilize VT.

Install VMware

1. Install VMware workstation 7.0. Download and install following version from vmware (http://vmware.com):

   VMware-workstation-full-7.0.0-203739.exe

   It's a 30 days trial version. License costs only $189.

You can also use VirtualBox to install SharePoint. VirtualBox is free and can be downloaded from the following page:

http://www.sun.com/software/products/virtualbox/get.jsp

2. After you have installed VMware, enable **Shared Folders**.

    a. From **VM** menu, select **Settings**.
    b. Select **Options** tab.
    c. Select **Shared Folders**.
    d. From **Folder Sharing**, select **Always enabled**.
    e. Check **Map as a network drive in Windows guests** check box. Don't skip this important step otherwise you won't see the drive listed in your drives list.
    f. Click **Add** button.
    g. Click **Next**.
    h. Click **Browse** to select a folder on your host machine, select a folder and click **Next**.
    i. Check **Enable this share** and click **Finish.**

Install Windows Server 2008

3. Install Windows Server 2008 (64-bit) on virtual machine. I installed following version downloaded from MSDN (subscribers download):

en_windows_server_2008_datacenter_enterprise_standard_x64_dvd_x14-26714.iso

SharePoint Requirements

4. Complete up to date list of hardware and software requirements for installing SharePoint 2010 is available at the following link:

   http://technet.microsoft.com/en-us/library/cc262485(office.14).aspx

   In a nutshell, 64-bit four core machine with 2.5 GHz minimum per core is required. RAM should be 4 GB at least (for developer or evaluation use).

   Software requirements list is as following:

   - Windows Server 2008 SP 2 OR Windows Server 2008 R2
   - SQL Server 2005 or 2008 (64-bit)
   - Web Server (IIS) role
   - Application Server role
   - Microsoft .NET Framework version 3.5 SP1
   - SQL Server 2008 Express with SP1
   - Microsoft "Geneva" Framework
   - Microsoft Sync Framework Runtime v1.0 (x64)
   - Microsoft Filter Pack 2.0
   - Microsoft Chart Controls for the Microsoft .NET Framework 3.5
   - Windows PowerShell 2.0 CTP3

Install SharePoint

5. Download SharePoint 2010 Beta from the following page:

   http://technet.microsoft.com/en-us/evalcenter/ee388573.aspx

6. After you have installed Windows Server 2008, change the computer name to **SP2010** or whatever you want but it should be meaningful.

7. Disable Internet Explorer security. Go to **All Programs > Administrative Tools > Server Manager** and click **Configure IE ESC** link.

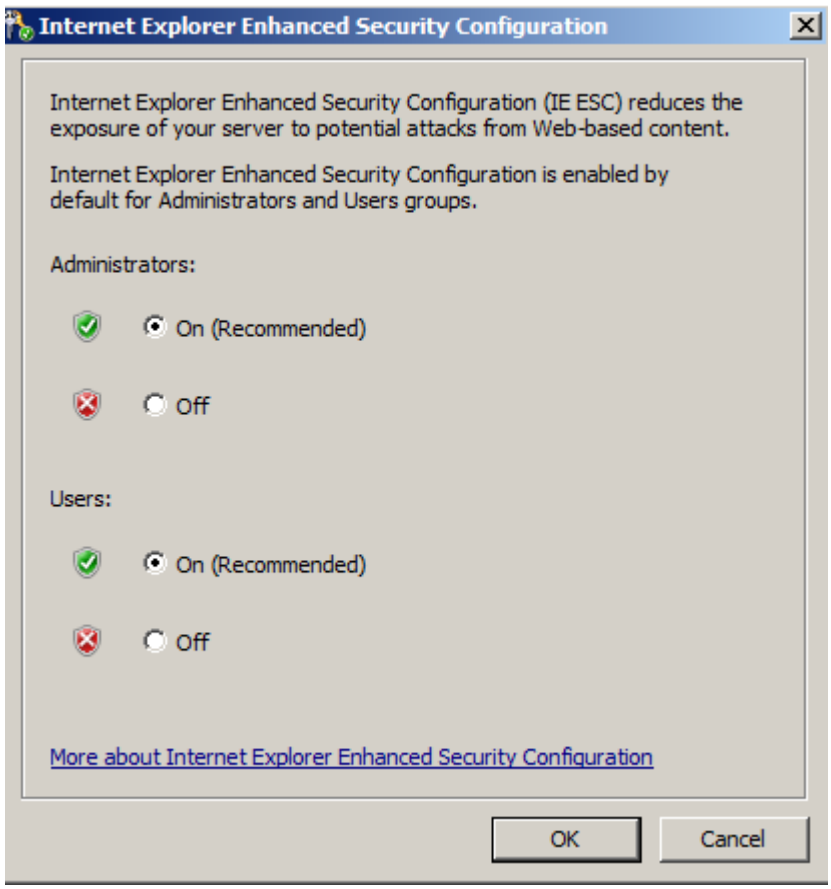

Internet Explorer Enhanced Security Configuration
Internet Explorer Enhanced Security Configuration (IE ESC) reduces the exposure of your server to potential attacks from Web-based content.
Internet Explorer Enhanced Security Configuration is enabled by default for Administrators and Users groups.
Administrators:
On (Recommended)
Off
Users:
On (Recommended)
Off
More about Internet Explorer Enhanced Security Configuration
OK
Cancel

Figure 1: *Disable IE security*

Turn security off for both administrators and users and click Ok.

8. While still in Server Manager, click **Roles** and then click **Add Roles** link.

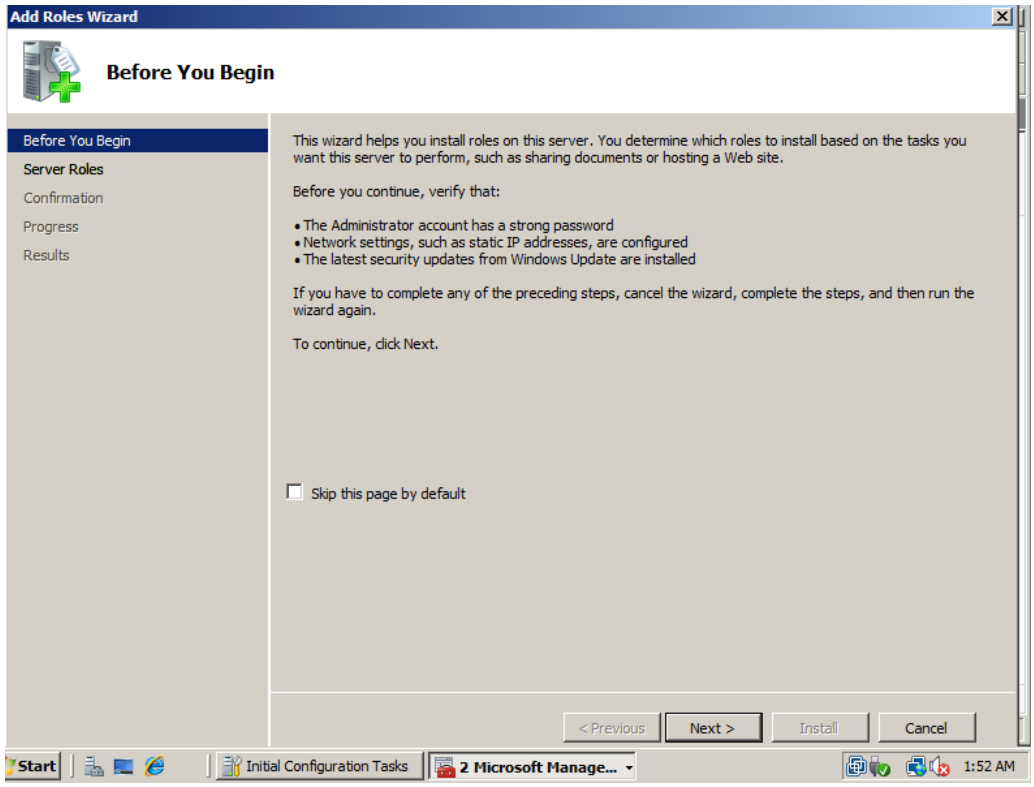

Add Roles Wizard
Before You Begin
Before You Begin
Server Roles
Confirmation
Progress
Results
This wizard helps you install roles on this server. You determine which roles to install based on the tasks you want this server to perform, such as sharing documents or hosting a Web site.
Before you continue, verify that:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The latest security updates from Windows Update are installed
If you have to complete any of the preceding steps, cancel the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel
Start
Initial Configuration Tasks
2 Microsoft Manage...
1:52 AM

Figure 2: *Add Roles*

9. Click **Next** and then select the second check box **Active Directory Domain Services** and click **Next** >. Click **Next** again and then click **Install**. Installation will start and will take approx. 10 minutes to complete (depending on your computer's speed). Click **Close** once the installation has completed.

10. Click **Active Directory Domain Services** link.

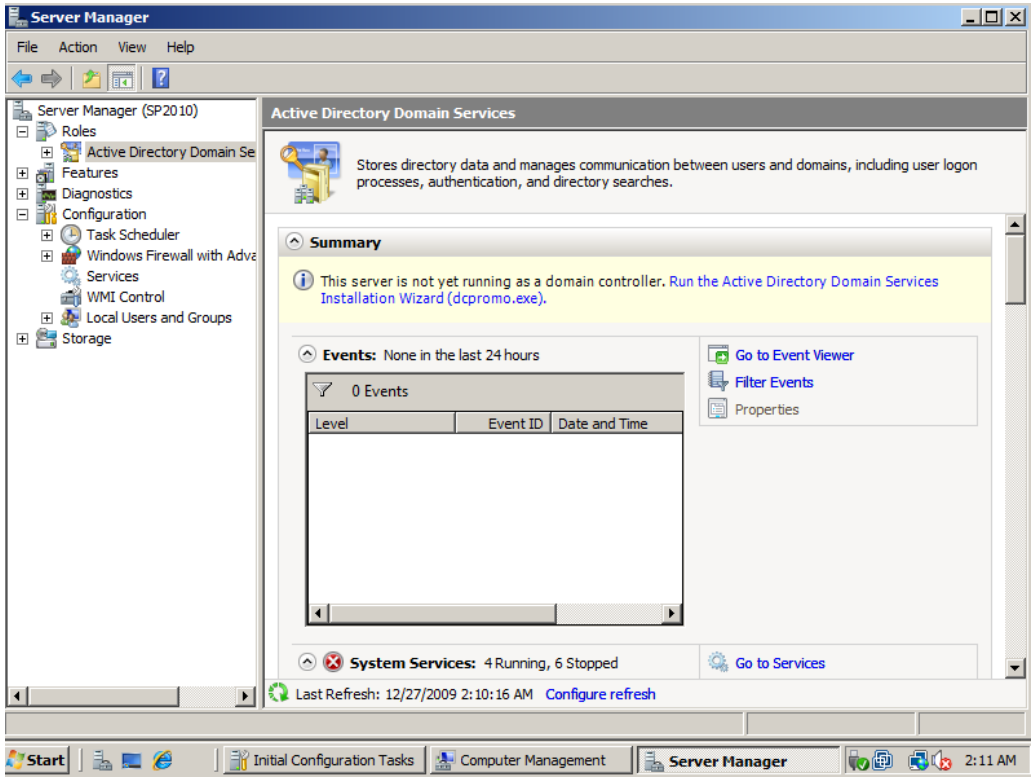


Figure 3: *Active Directory Domain Services*

You will see following warning message:

This server is not yet running as a domain controller. Run the Active Directory Domain Services Installation Wizard (dcpromo.exe).

Click the link in this message to install Active Directory Domain Services.

11. Click **Next**. Click **Next** again. Select the second option **Create a new domain in a new forest** and click **Next**.

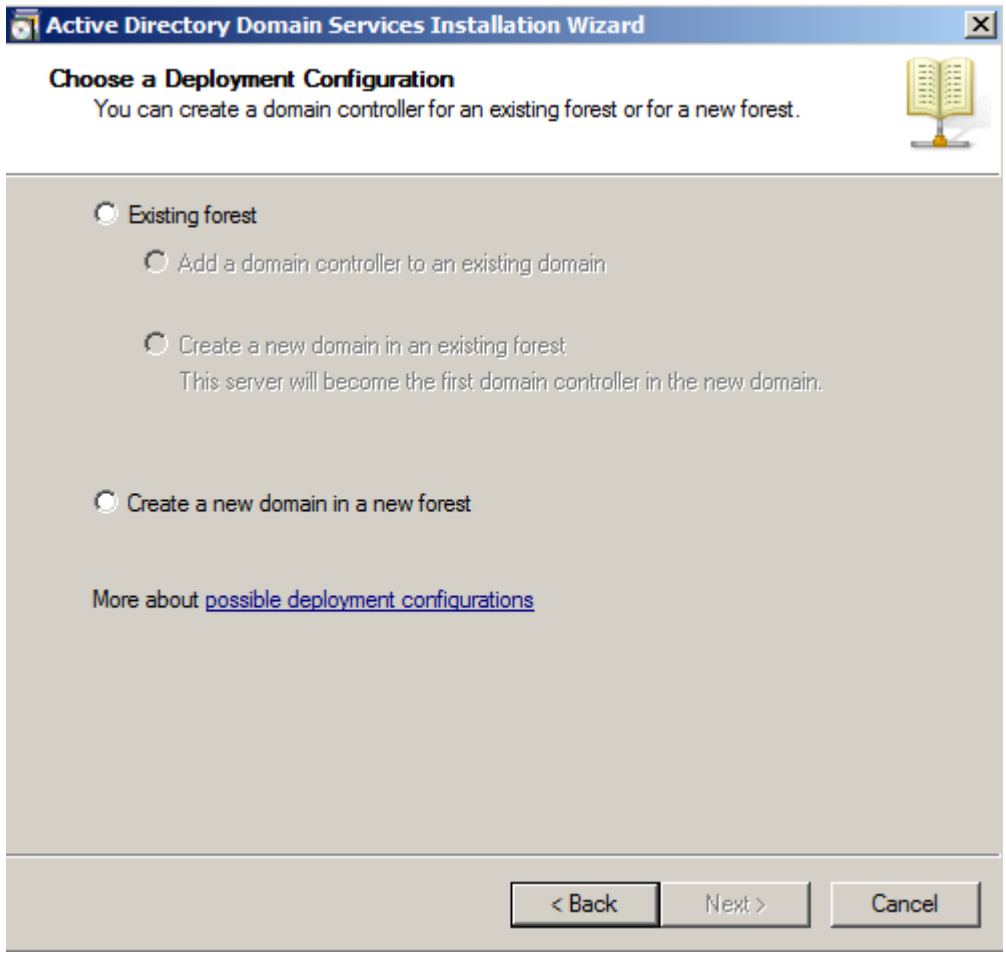

Active Directory Domain Services Installation Wizard
Choose a Deployment Configuration
You can create a domain controller for an existing forest or for a new forest.
Existing forest
Add a domain controller to an existing domain
Create a new domain in an existing forest
This server will become the first domain controller in the new domain.
Create a new domain in a new forest
More about possible deployment configurations
< Back
Next >
Cancel

Figure 4: *Create a new domain in a new forest*

You will get following error if your current administrator password is set to blank.

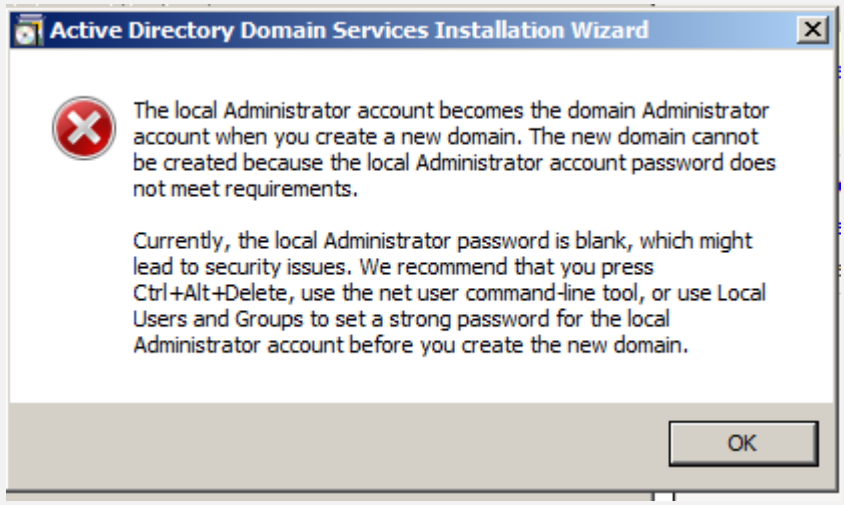

Active Directory Domain Services Installation Wizard
The local Administrator account becomes the domain Administrator account when you create a new domain. The new domain cannot be created because the local Administrator account password does not meet requirements.
Currently, the local Administrator password is blank, which might lead to security issues. We recommend that you press Ctrl+Alt+Delete, use the net user command-line tool, or use Local Users and Groups to set a strong password for the local Administrator account before you create the new domain.
OK

Figure 5: *Current admin password should not be blank*

Click **Ok** and change the Administrator password. Once you have changed the password, run the Active Directory Domain Services installation again (see steps above).

12. Provide a FQDN, for example, server.sp2010.com and click **Next**.
13. Select **Windows Server 2008** from the drop down and click **Next**.

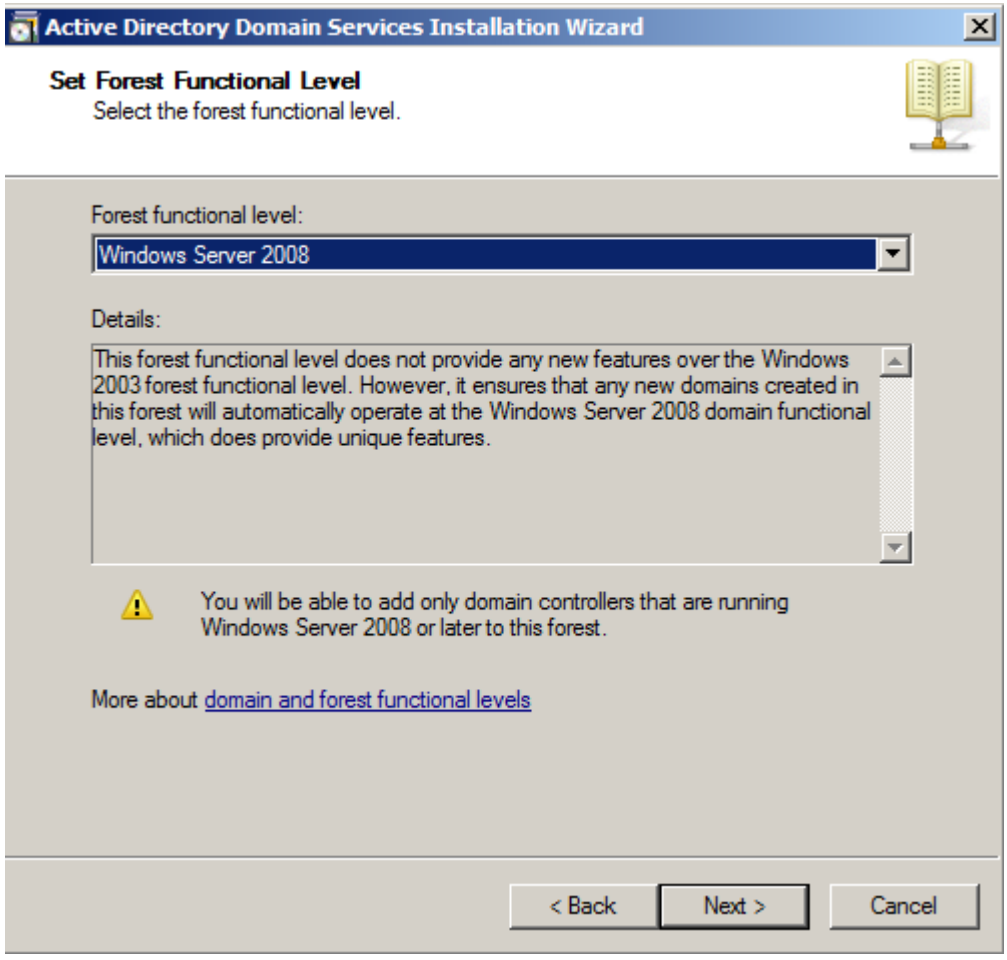

Active Directory Domain Services Installation Wizard
Set Forest Functional Level
Select the forest functional level.
Forest functional level:
Windows Server 2008
Details:
This forest functional level does not provide any new features over the Windows 2003 forest functional level. However, it ensures that any new domains created in this forest will automatically operate at the Windows Server 2008 domain functional level, which does provide unique features.
You will be able to add only domain controllers that are running Windows Server 2008 or later to this forest.
More about domain and forest functional levels
< Back
Next >
Cancel

Figure 6: *Forest functional level*

14. Keep **DNS server** checked and click **Next**.
15. You will see following warning message if your computer has dynamically assigned IP address(es):

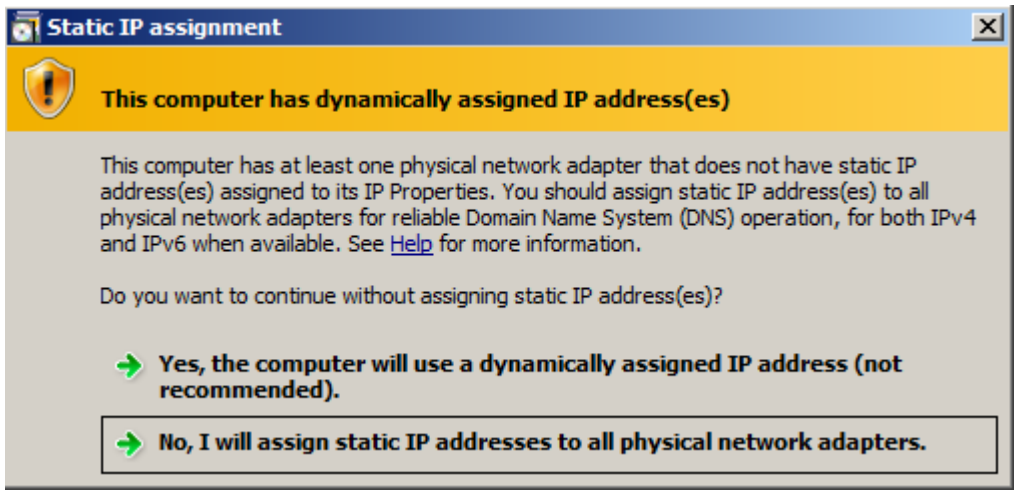

Static IP assignment
This computer has dynamically assigned IP address(es)
This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. You should assign static IP address(es) to all physical network adapters for reliable Domain Name System (DNS) operation, for both IPv4 and IPv6 when available. See Help for more information.
Do you want to continue without assigning static IP address(es)?
Yes, the computer will use a dynamically assigned IP address (not recommended).
No, I will assign static IP addresses to all physical network adapters.

Figure 7: *This computer has dynamically assigned IP address(es)*

Select first option **Yes, the computer will use dynamically assigned IP address (not recommended).** if you don't want to assign a static IP to your computer and click **Next**. If you want to make the change, assign static IP and run the wizard again.

16. Next you may see this error:

Active Directory Domain Services Installation Wizard
A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain server.sp2010.com. Otherwise, no action is required.
Do you want to continue?
Yes
No

Figure 8: *A delegation for this DNS server cannot be created*

Click **Yes**.

17. You will be presented with the following screen:

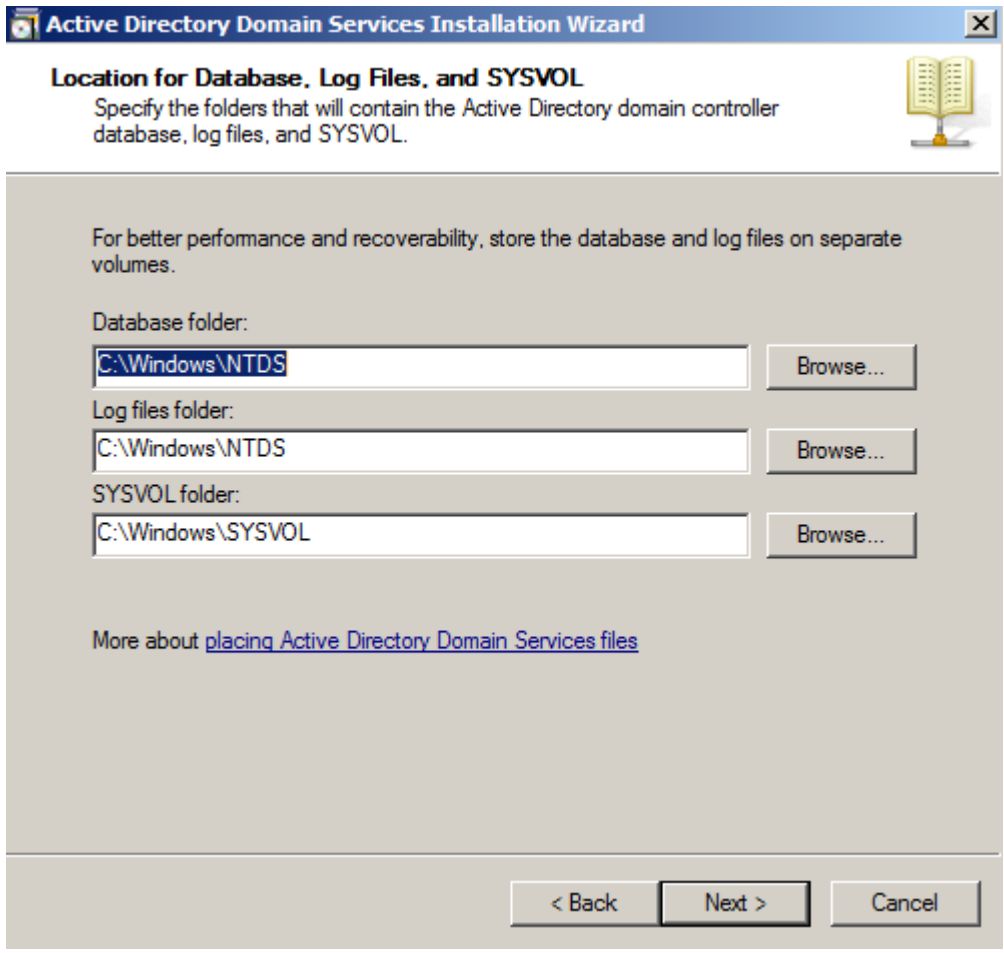

Active Directory Domain Services Installation Wizard
Location for Database, Log Files, and SYSVOL
Specify the folders that will contain the Active Directory domain controller database, log files, and SYSVOL.
For better performance and recoverability, store the database and log files on separate volumes.
Database folder:
C:\Windows\NTDS
Browse...
Log files folder:
C:\Windows\NTDS
Browse...
SYSVOL folder:
C:\Windows\SYSVOL
Browse...
More about placing Active Directory Domain Services files
< Back
Next >
Cancel

Figure 9: *Folders to store DC database, log files and SYSVOL*

If you have different partitions, save database and log files on different partitions. Select save locations and click **Next** (You can keep the default locations).

18. Enter password for Directory Services Restore Mode Administrator Mode and click **Next**.

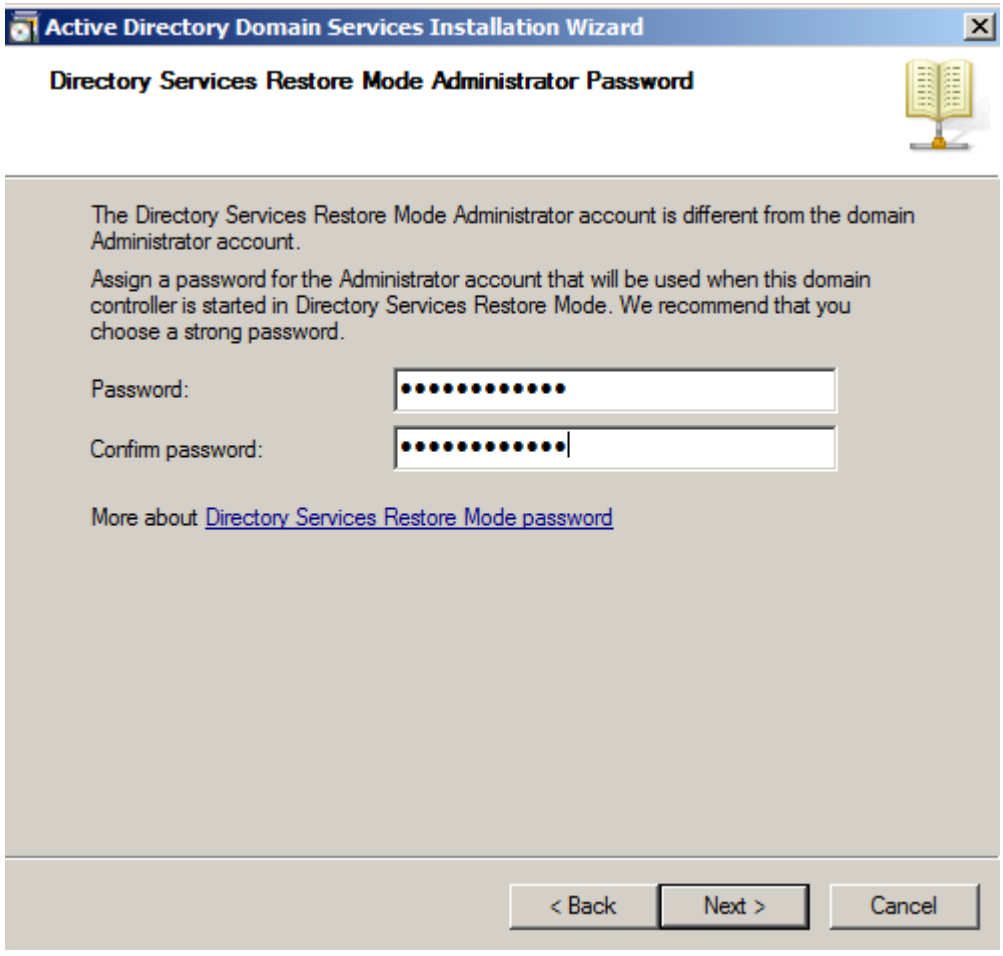

Active Directory Domain Services Installation Wizard
Directory Services Restore Mode Administrator Password
The Directory Services Restore Mode Administrator account is different from the domain Administrator account.
Assign a password for the Administrator account that will be used when this domain controller is started in Directory Services Restore Mode. We recommend that you choose a strong password.
Password:
Confirm password:
More about Directory Services Restore Mode password
< Back
Next >
Cancel

Figure 10: *Directory Services Restore Mode Administrator Password*

19. Review your selections and click **Next**. DNS Installation starts. Screen looks as following:

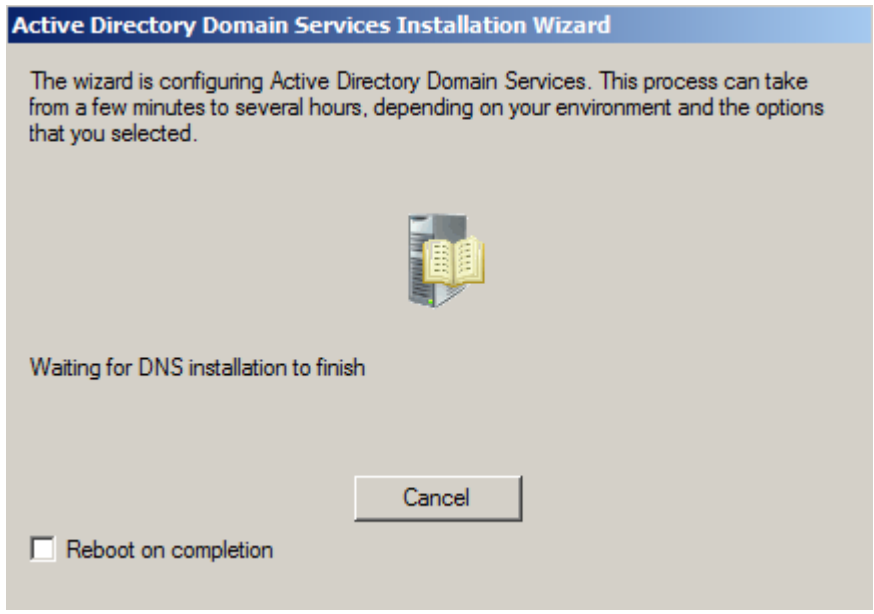

Active Directory Domain Services Installation Wizard
The wizard is configuring Active Directory Domain Services. This process can take from a few minutes to several hours, depending on your environment and the options that you selected.
Waiting for DNS installation to finish
Cancel
Reboot on completion

Figure 11: *Wizard is configuring Active Directory Domain Services*

The installation process can take from few minutes to several hours.

20. Click **Finish** after the installation has completed.

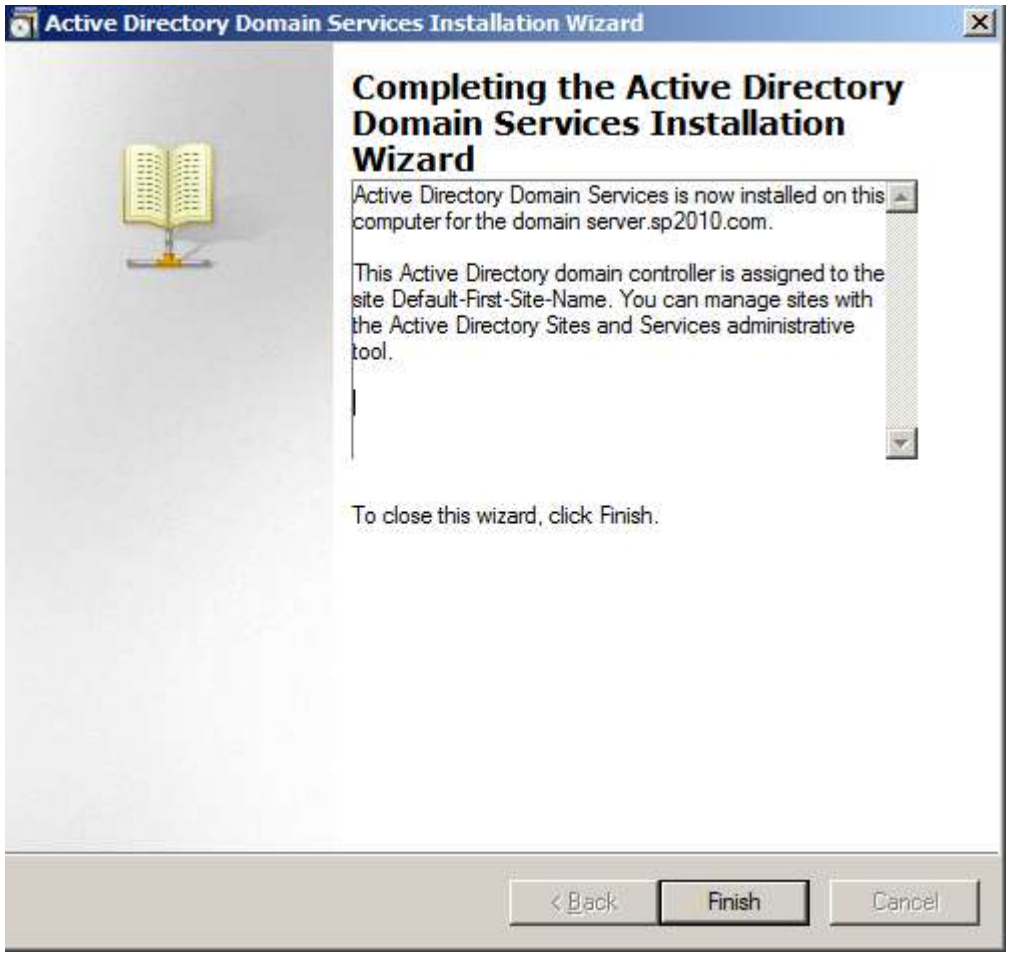

Active Directory Domain Services Installation Wizard
Completing the Active Directory Domain Services Installation Wizard
Active Directory Domain Services is now installed on this computer for the domain server.sp2010.com.
This Active Directory domain controller is assigned to the site Default-First-Site-Name. You can manage sites with the Active Directory Sites and Services administrative tool.
To close this wizard, click Finish.
< Back
Finish
Cancel

Figure 12: *Completing the Active Directory Domain Services Installation*

21. Click **Restart Now** button to restart your machine.
22. Open **Server Manager** and add a new user. This is for the SQL account. Do the following to add a new user:

- Expand **Roles** node
- Expand **Active Directory Users and Computers [FQDN]** node
- Expand [FQDN] node
- Right-click **Users** node, select **New** and then **User**

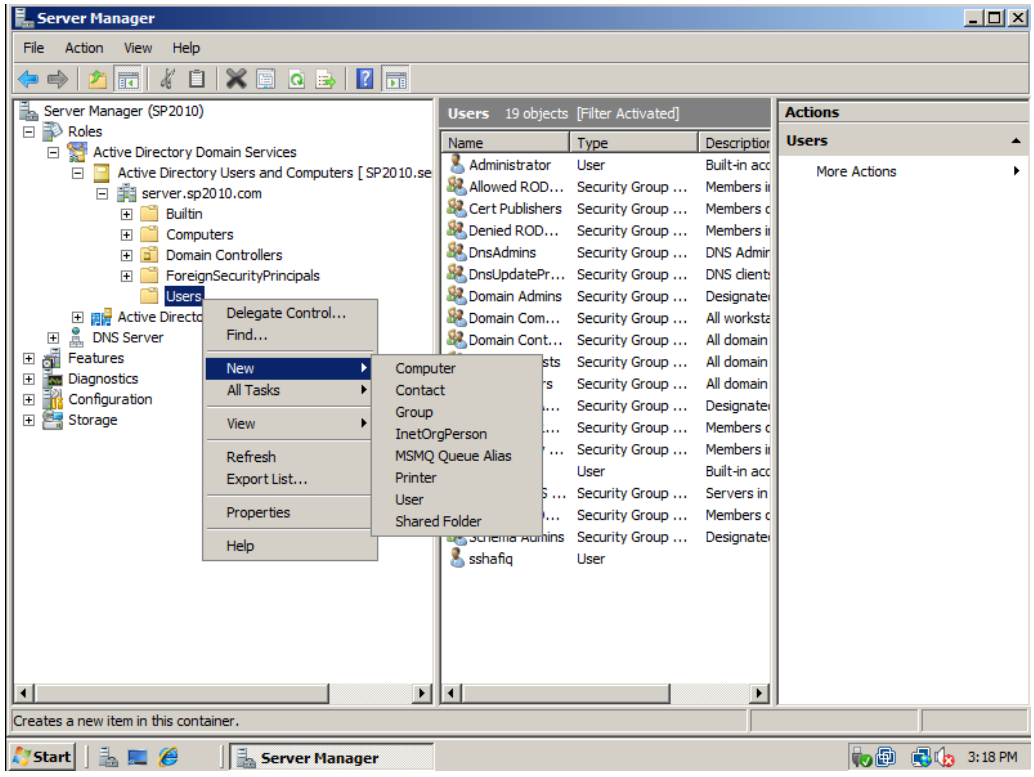


Figure 13: *Add a new user*

23. Enter **SQLAccount** in the **Full Name**. Enter **sqlaccount** in the **User logon name** box and click **Next**.

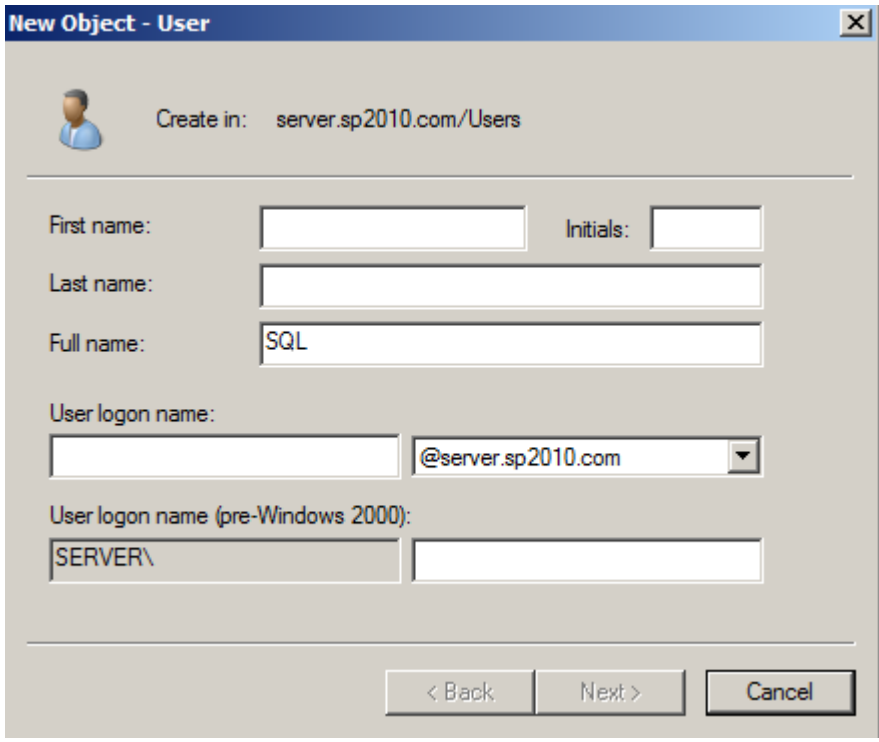


Figure 14: *Enter account details*

24. Enter new password in **Password** and **Confirm password** boxes. Uncheck all check boxes except **Password never expires** and click **Next**. Make sure you enter complex password, for example, you should not enter password same as user id, Enter one big alphabet and enter at least one digit. Make sure password length is not too short. If you don't follow these guidelines, you will get an error in the next step when you click the **Finish** button.

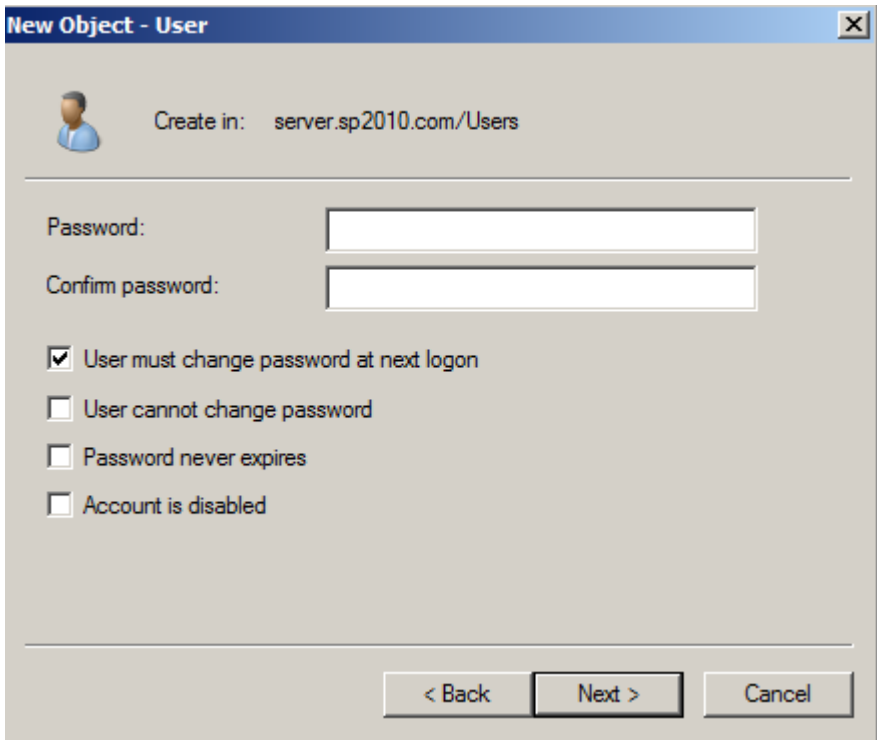


Figure 15: *Enter SQL account password*

25. Click **Finish**.
26. Now add an account for services. In **Server Manager**, Right-click the FQDN node (Roles > Active Directory Domain Services > Active Directory Users and Computers) and select **Delegate Control…**.

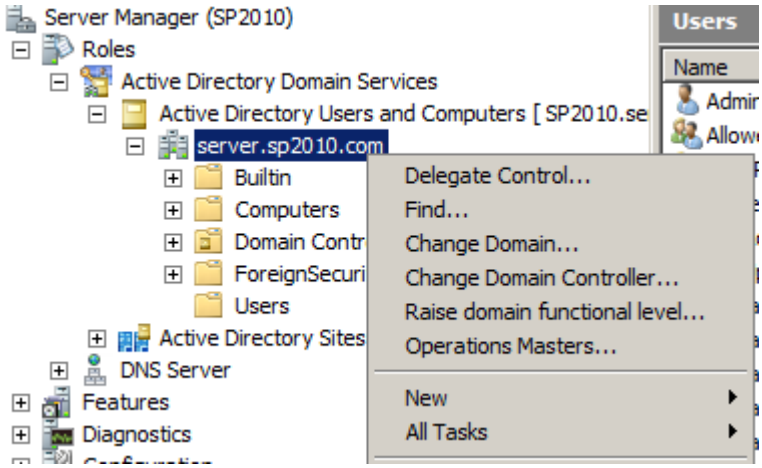


Figure 16: *Delegate control*

27. Click **Next**.
28. Click **Add**.
29. Enter the admin account or services account, if you have created one separately, in the **Enter the object names to select box** and click **Check Names** button. If user name is resolved, click OK otherwise make sure you have entered the correct user.
30. Click **Next**.
31. Select the second radio button **Create a custom task to delegate** and click **Next**.
32. Keep the first radio button selected and click **Next**.

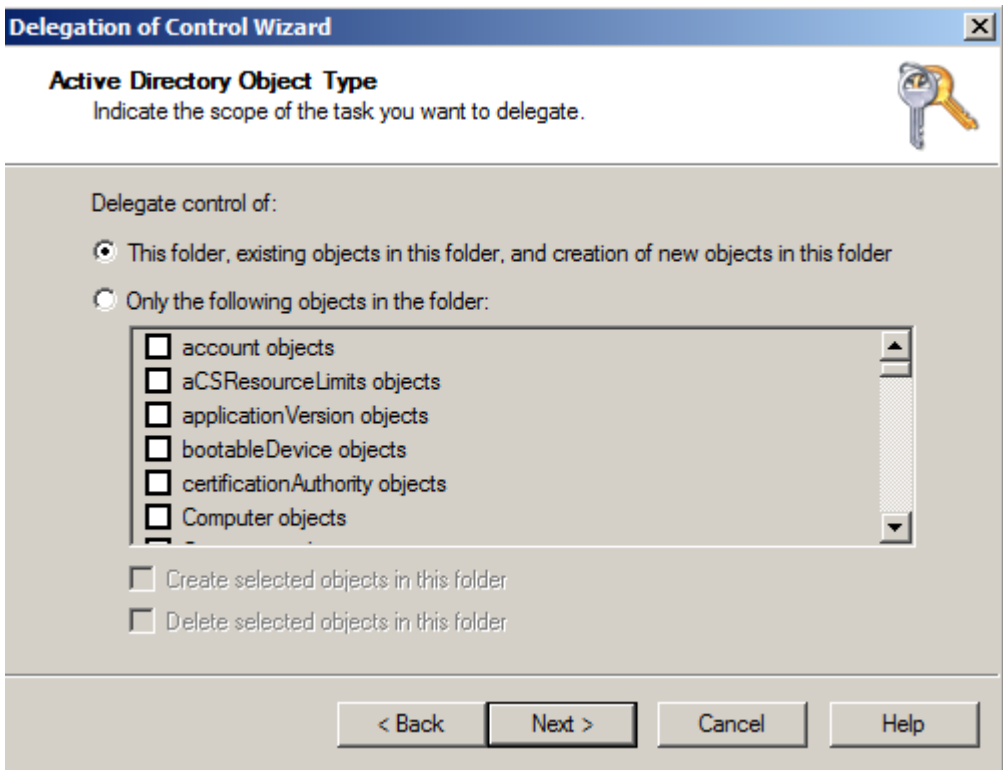

Delegation of Control Wizard
Active Directory Object Type
Indicate the scope of the task you want to delegate.
Delegate control of:
This folder, existing objects in this folder, and creation of new objects in this folder
Only the following objects in the folder:
account objects
aCSResourceLimits objects
applicationVersion objects
bootableDevice objects
certificationAuthority objects
Computer objects
Create selected objects in this folder
Delete selected objects in this folder
< Back
Next >
Cancel
Help

Figure 17: *Active Directory Object Type*

33. By default, first check box **General** is selected. Keep it selected and from permissions, check **Replicating directory changes** check box and click **Next**.

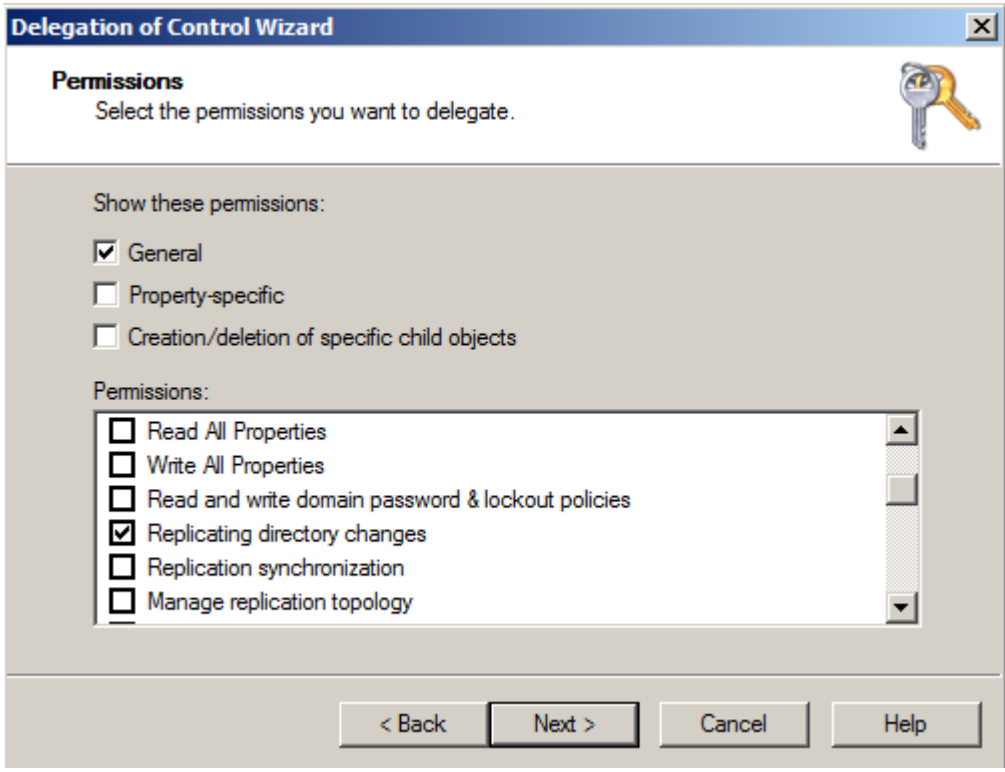


Figure 18: *Permissions you want to delegate*

34. Click **Finish**.

Install WCF Hotfix

35. A hotfix is required to fix an issue.

    You can download this hotfix directly from the following link:

    http://go.microsoft.com/fwlink/?linkID=160770

    Alternatively, you can download it from here:

    http://connect.microsoft.com/VisualStudio/Downloads/DownloadDetails.aspx?DownloadID=23807

    You will have to log in with your live ID. This page will show you following three downloads:

a. Windows6.0-KB976394-x64.msu (4.22 MB)
b. Windows6.0-KB976394-x86.msu (4.21 MB)
c. Windows6.0-KB976394-ia64.msu (2.67 MB)

Download the first one **Windows6.0-KB976394-x64.msu**. This hotfix is also available for Windows Server 2008 R2 and can be downloaded from the following link:

https://connect.microsoft.com/VisualStudio/Downloads/DownloadDetails.aspx?DownloadID=23806&wa=wsignin1.0

Run the hotfix package. It will automatically check if the update is required for your system and will install the update otherwise you will get a message that update is not required for your system.

Note: You will have to install the following fix after SharePoint installer has checked the prerequisites and given you a green signal ("Installation Complete" message) to install the SharePoint itself:

http://connect.microsoft.com/VisualStudio/Downloads/DownloadDetails.aspx?DownloadID=21953

This will install KB971831 and is required in order to continue the SharePoint installation. Without this KB, SharePoint installer will fail. Don't worry about it now. There will be a separate step later in this walk-through.

Install SQL Server Pre-requisites

Install .NET Framework 3.5 Service Pack 1

You need to install .NET Framework 3.5 SP1 before you can install SQL Server 2008. If you miss this step, SQL Server setup will prompt you to install the pre-requisites.

You can download .NET Framework 3.5 SP1 from the following page:

http://www.microsoft.com/downloads/details.aspx?FamilyID=AB99342F-5D1A-413D-8319-81DA479AB0D7

It's an executable package. Package name is as following:

en_.net_framework_3.5_service_pack_1_x86_x64_ia64.exe

Copy this package to your virtual machine and run it. This will install .NET Framework 3.5 SP1 on your machine. Following is step-by-step installation detail:

36. Run the package and accept the license agreement and click **Next**

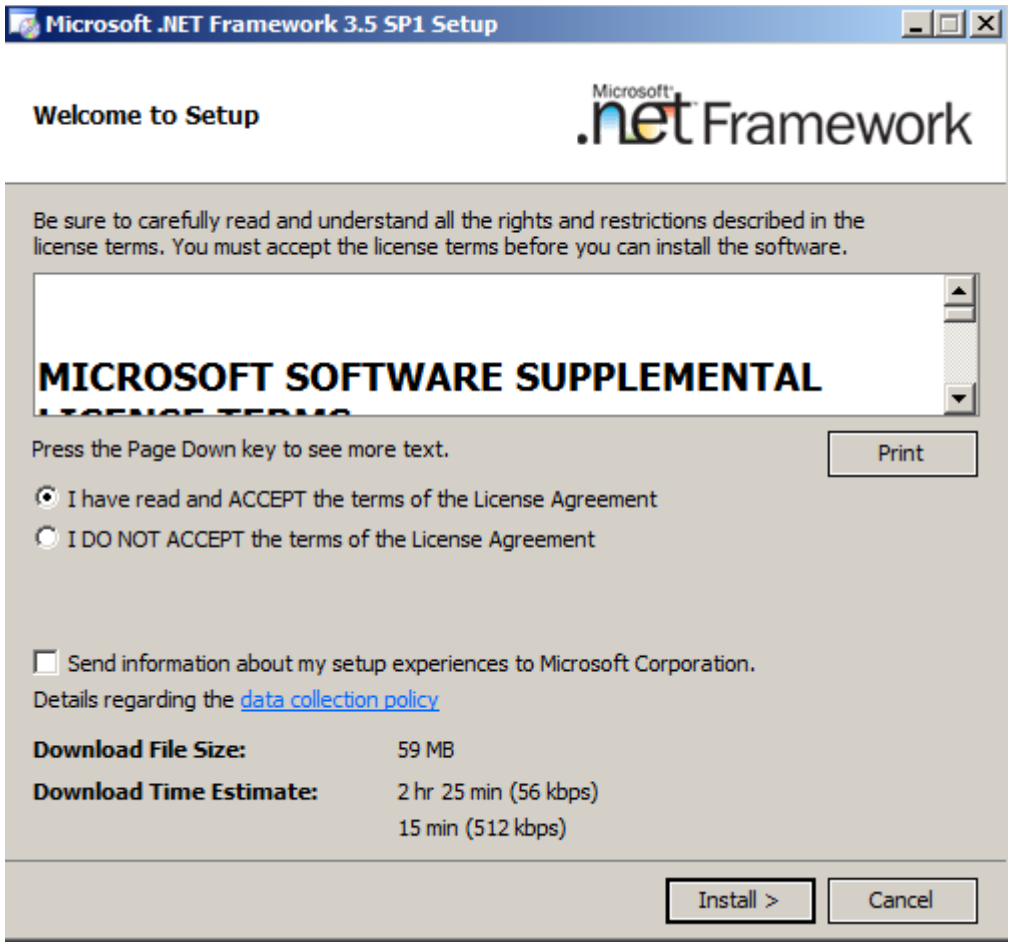

Microsoft .NET Framework 3.5 SP1 Setup
Welcome to Setup
Microsoft .net Framework
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE SUPPLEMENTAL
Press the Page Down key to see more text.
Print
I have read and ACCEPT the terms of the License Agreement
I DO NOT ACCEPT the terms of the License Agreement
Send information about my setup experiences to Microsoft Corporation.
Details regarding the data collection policy
Download File Size: 59 MB
Download Time Estimate: 2 hr 25 min (56 kbps)
15 min (512 kbps)
Install >
Cancel

Figure 19: *Install Microsoft .NET Framework 3.5 SP1*

Installation will take at least 10-15 minutes. After the software has installed, click **Exit**. Click **Restart Now** button to restart your machine. This is important for the changes to take effect.

Install SQL Server

You can copy the installer package to your virtual machine and run it from there or you can run it directly from the host machine. The installer is an ISO package, therefore, you can mount it and run directly from the host. If you haven't already downloaded SQL Server, you can download it from the Microsoft site. I will use SQL Server 2008 for this walkthrough. If you haven't downloaded it yet, download the following package from Microsoft:

en_sql_server_2008_enterprise_x86_x64_ia64_dvd_x14-89207.iso (3,180,582 KB)

This is enterprise version for 64 bit machines.

To run it from your virtual machine, you will need to rename the .iso extension to .rar extension and then use WinRAR (http://rarlab.com) software to unzip the files to your hard disk. After unzipping the files, you can run the setup package directly from your virtual machine's hard disk. You can use other software also that can unzip the cab files (zipped files). There are some third party software that can read directly from the .iso image.

37. To mount the iso image, go to **VM** menu and select **Settings…**.
38. Select **CD/DVD (IDE)**.
39. From **Connection** section, select second option **Use ISO image file**.

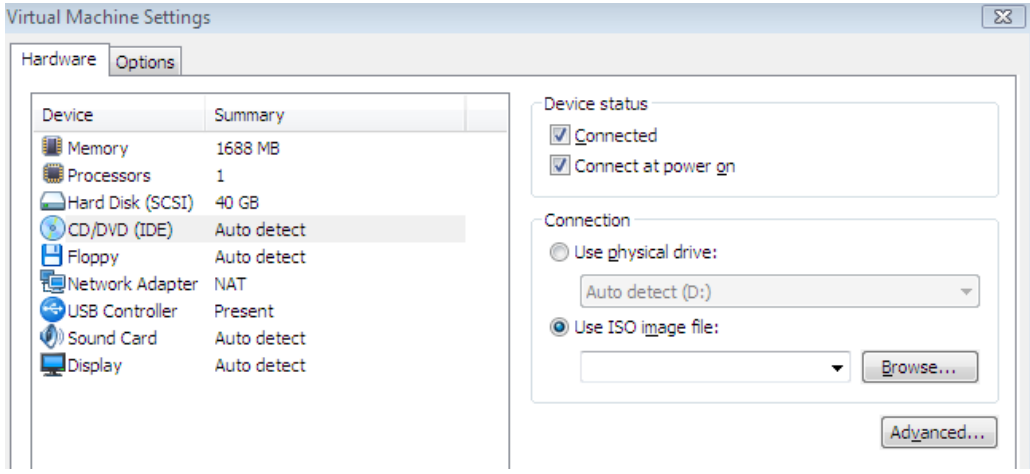


Figure 20: *Mount ISO Image*

40. Click **Browse** button and select SQL Server's .iso image from your host machine.
41. Click **OK**.
42. ISO image has been mounted. Now click the DVD drive, AutoPlay options will be displayed. Double-click **Run SETUP.EXE** to start the installation.

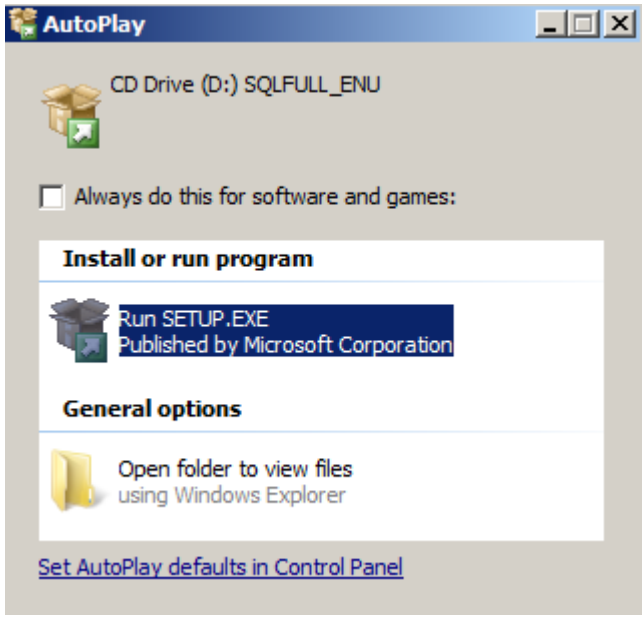


Figure 21: *Run SQL Server setup*

43. You may see the following alert:

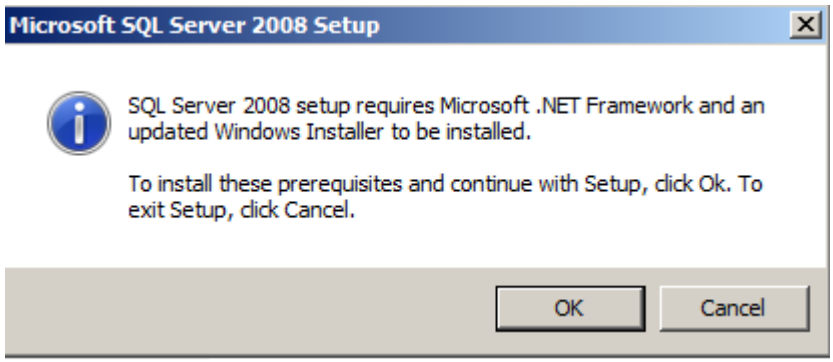

Microsoft SQL Server 2008 Setup
SQL Server 2008 setup requires Microsoft .NET Framework and an updated Windows Installer to be installed.
To install these prerequisites and continue with Setup, click Ok. To exit Setup, click Cancel.
OK
Cancel

Figure 22: *SQL Server Setup*

The error occurs if Windows Installer 4.5 is not installed on your machine. Click **Ok**. You may be prompted to install a hotfix for Windows (KB942288). Click **Ok** to install it.

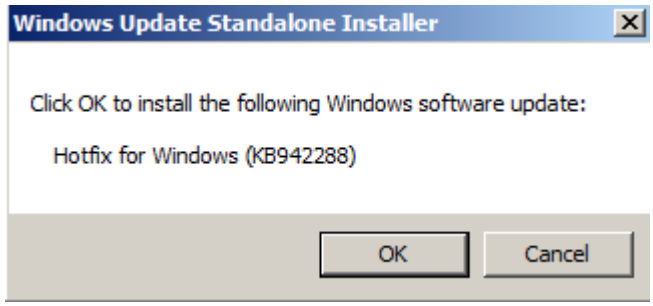


Figure 23: *Install Hotfix KB942288*

After the installation has completed, click **Restart Now** button to restart the machine.

44. After the machine has started, run SQL setup again. You will see following screen:

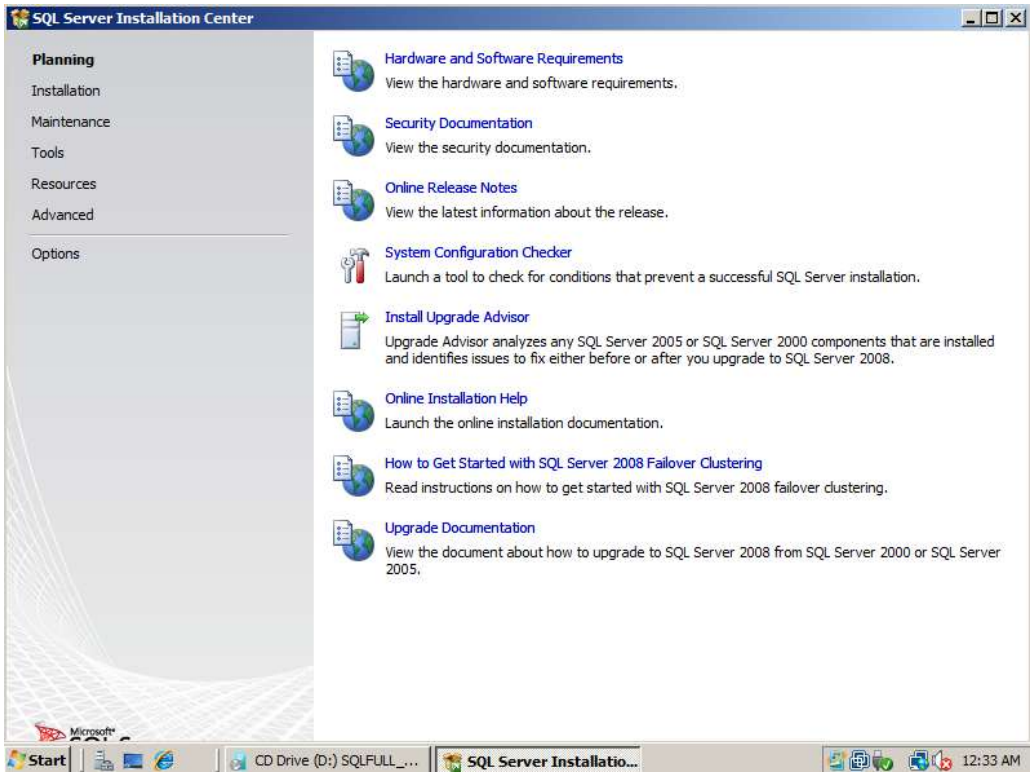

SQL Server Installation Center
Planning
Installation
Maintenance
Tools
Resources
Advanced
Options
Hardware and Software Requirements
View the hardware and software requirements.
Security Documentation
View the security documentation.
Online Release Notes
View the latest information about the release.
System Configuration Checker
Launch a tool to check for conditions that prevent a successful SQL Server installation.
Install Upgrade Advisor
Upgrade Advisor analyzes any SQL Server 2005 or SQL Server 2000 components that are installed and identifies issues to fix either before or after you upgrade to SQL Server 2008.
Online Installation Help
Launch the online installation documentation.
How to Get Started with SQL Server 2008 Failover Clustering
Read instructions on how to get started with SQL Server 2008 failover clustering.
Upgrade Documentation
View the document about how to upgrade to SQL Server 2008 from SQL Server 2000 or SQL Server 2005.
Start
CD Drive (D:) SQLFULL_...
SQL Server Installatio...
12:33 AM

Figure 24: *SQL Server Installation Center*

45. Click the first link **New SQL Server stand-alone installation or add features to an existing installation**.
46. Next you see the following screen:

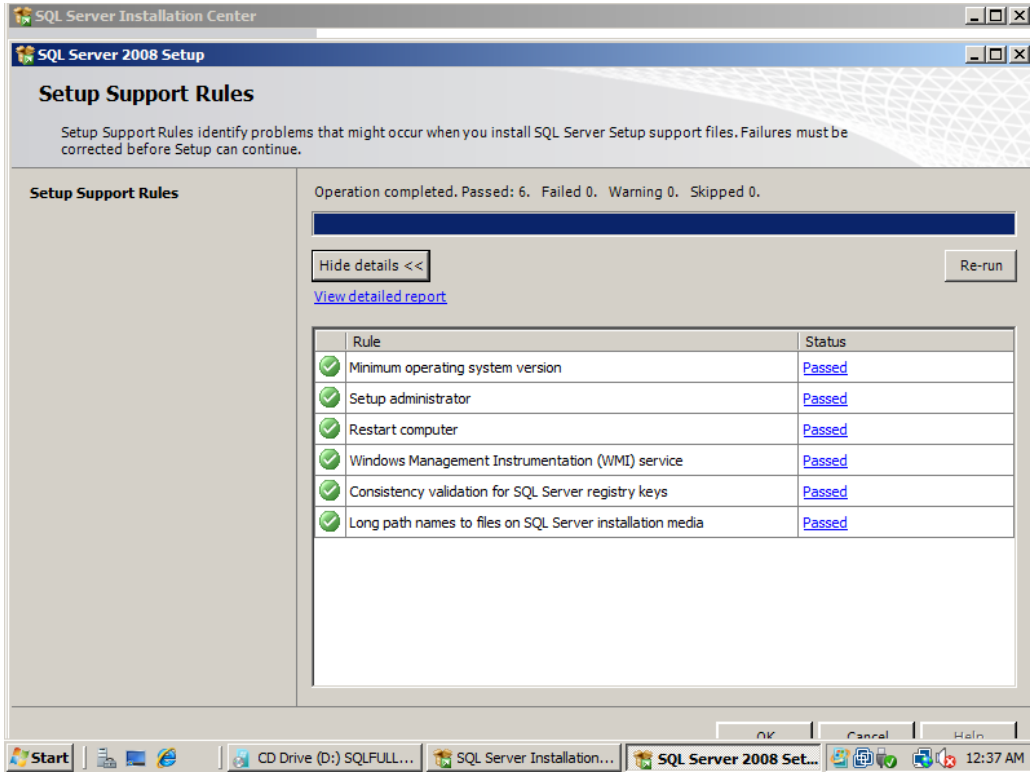


Figure 25: *Setup support roles*

47. Click **Ok**.
48. You will see following screen:

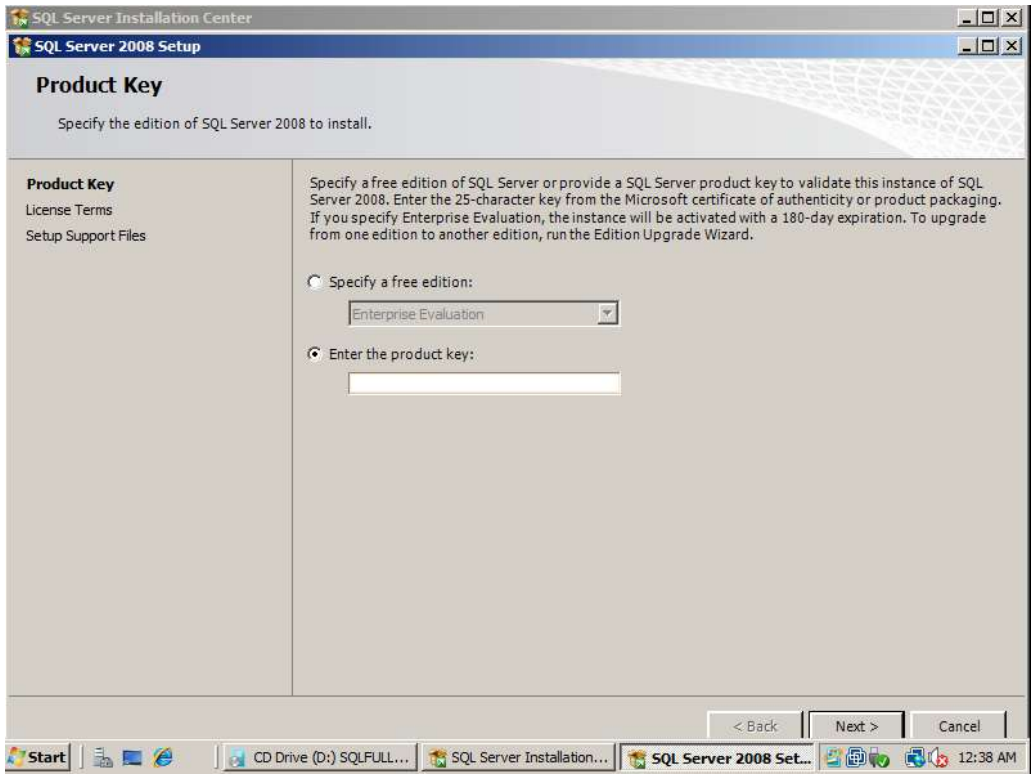

SQL Server Installation Center
SQL Server 2008 Setup
Product Key
Specify the edition of SQL Server 2008 to install.
Product Key
License Terms
Setup Support Files
Specify a free edition of SQL Server or provide a SQL Server product key to validate this instance of SQL Server 2008. Enter the 25-character key from the Microsoft certificate of authenticity or product packaging. If you specify Enterprise Evaluation, the instance will be activated with a 180-day expiration. To upgrade from one edition to another edition, run the Edition Upgrade Wizard.
Specify a free edition:
Enterprise Evaluation
Enter the product key:
< Back
Next >
Cancel
Start
CD Drive (D:) SQLFULL...
SQL Server Installation...
SQL Server 2008 Set...
12:38 AM

Figure 26: *SQLServer product key*

The screen shows two options:

- Specify a free edition
- Enter the product key

If you have a product key, enter it. If you have downloaded SQL from MSDN subscribers download, the key will already be shown in the text box. Click **Next**.

49. Check **I accept the license terms.** Check box and click **Next**.

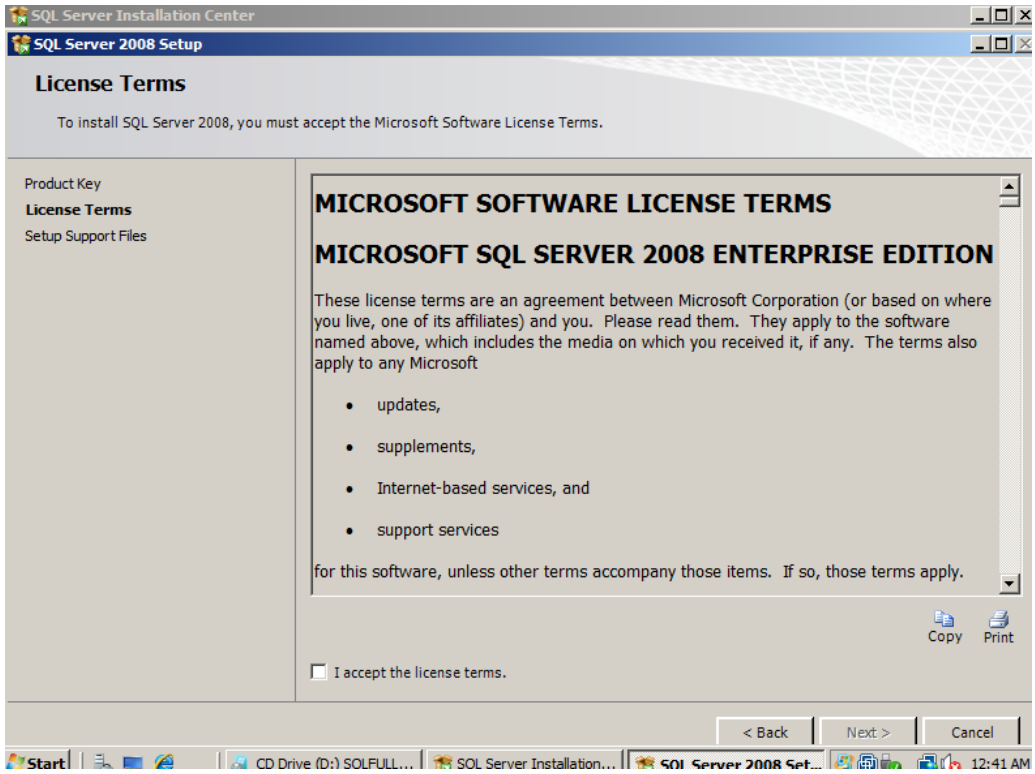

SQL Server Installation Center
SQL Server 2008 Setup
License Terms
To install SQL Server 2008, you must accept the Microsoft Software License Terms.
Product Key
License Terms
Setup Support Files
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2008 ENTERPRISE EDITION
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
updates,
supplements,
Internet-based services, and
support services
for this software, unless other terms accompany those items. If so, those terms apply.
Copy
Print
I accept the license terms.
< Back
Next >
Cancel
Start
CD Drive (D:) SQLFULL...
SQL Server Installation...
SQL Server 2008 Set...
12:41 AM

Figure 27: *SQL Server 2008 Setup*

50. Click **Install** button to start installation.

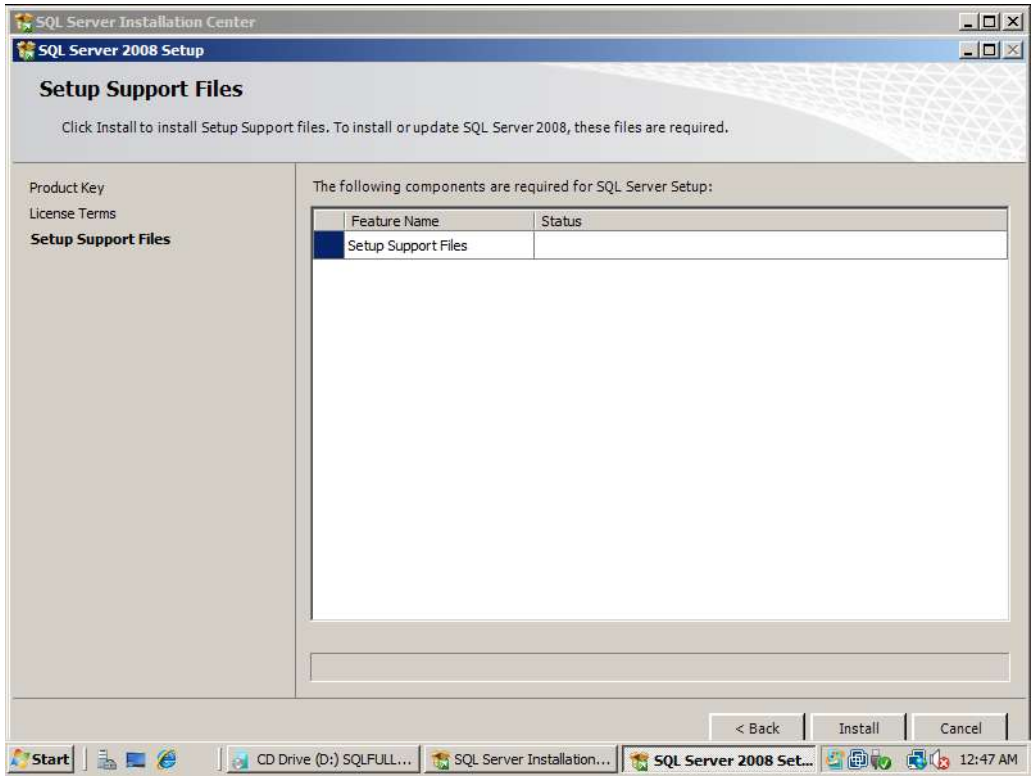


Figure 28: *Setup support files*

51. After you see the following screen, click **Next**.

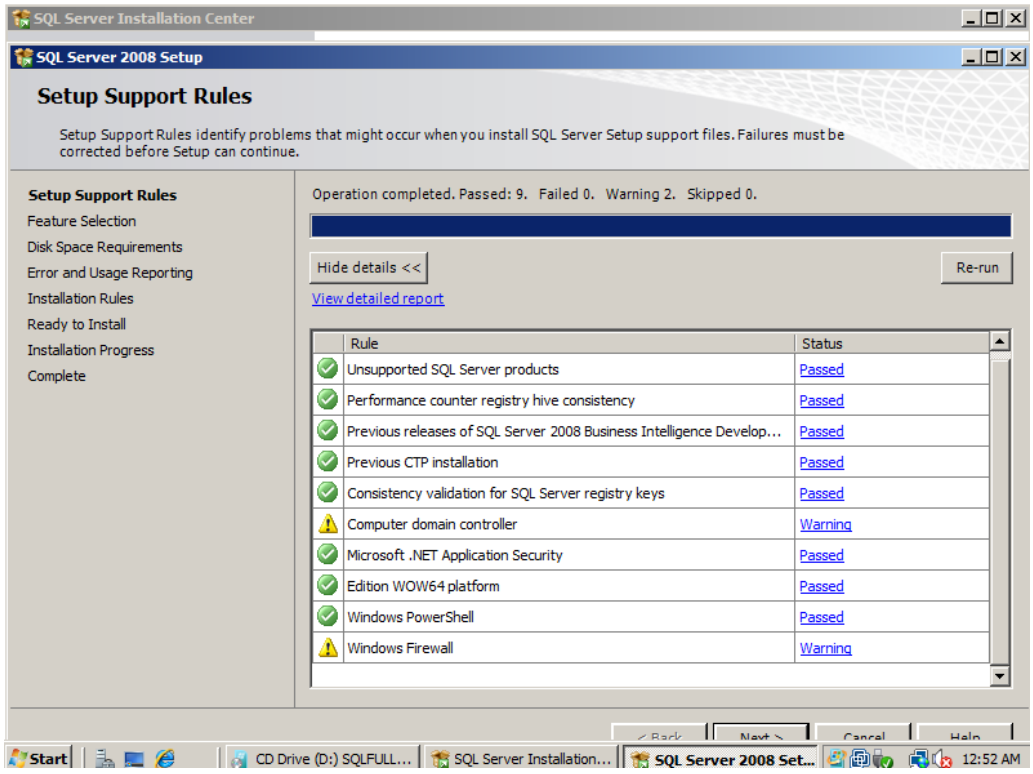


Figure 29: *Setup support rules status*

52. Click **Select All** to select all features. If you want you can uncheck **SQL Server Books Online**. Click **Next**

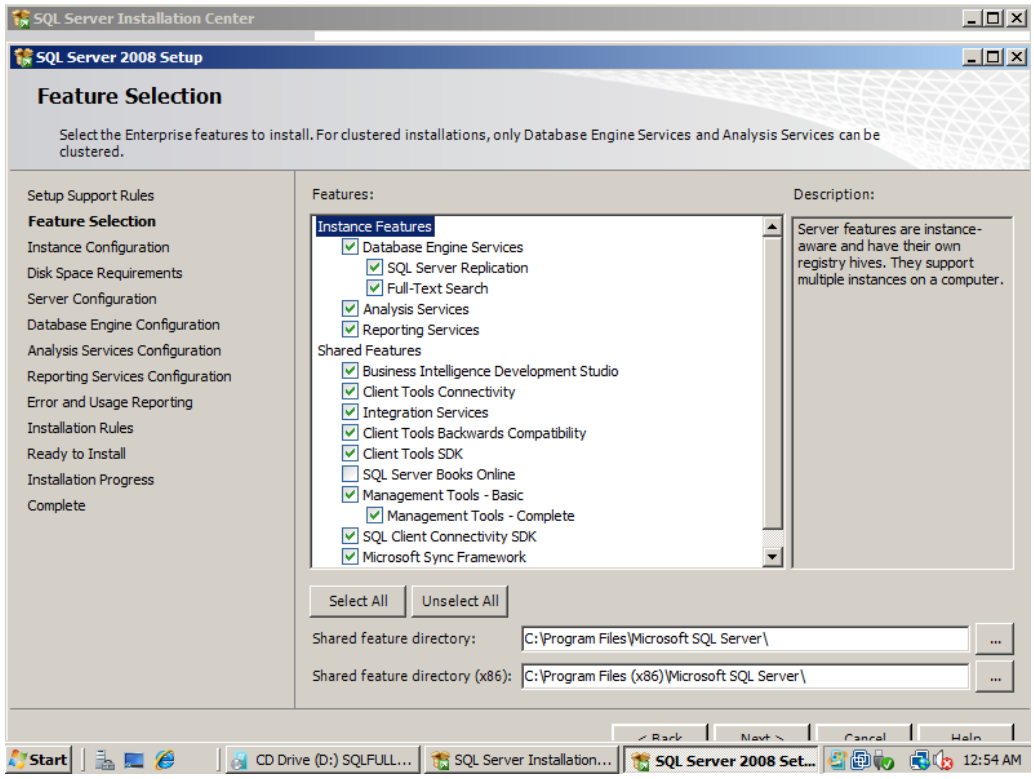


Figure 30: *SQL Server 2008 feature selection*

53. Keep **Default instance** option selected and click **Next**.

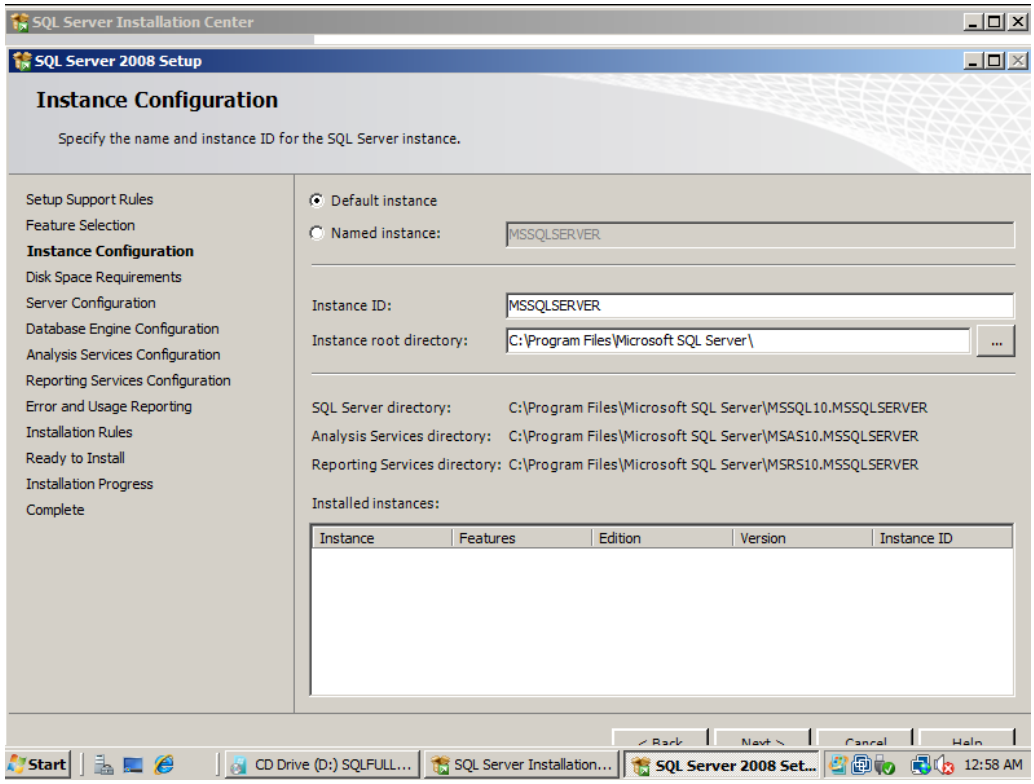


Figure 31: *Instance configuration*

54. Click **Next**.

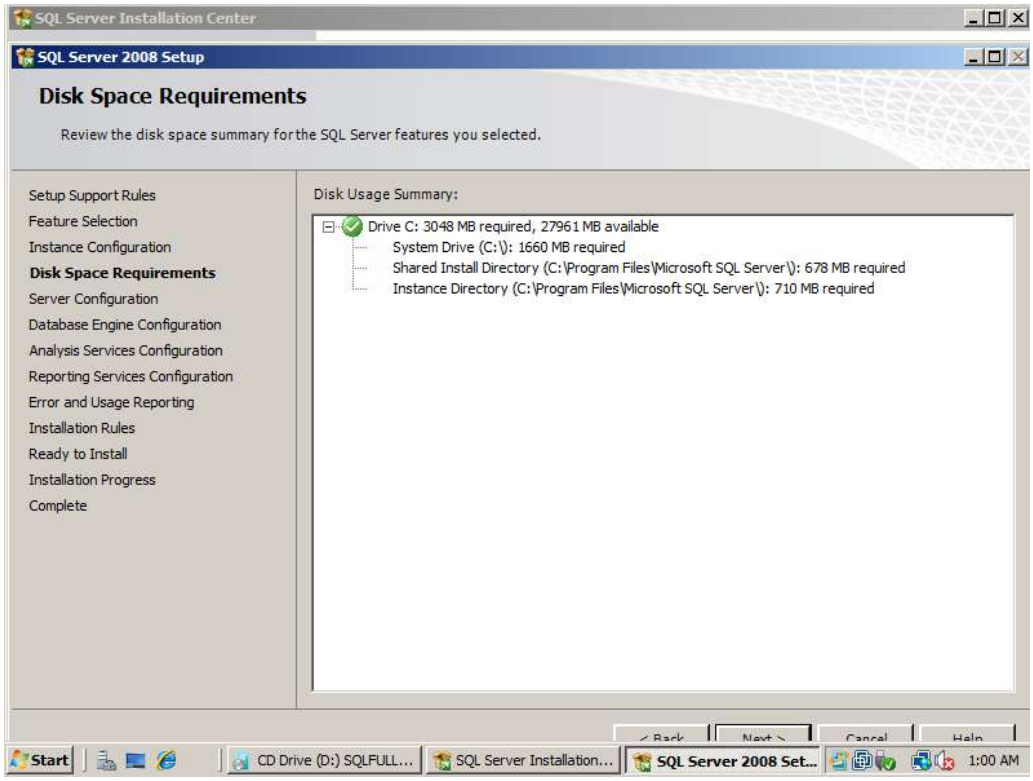


Figure 32: *Disk space requirements*

55. Click **Use the same account for all SQL Server services** button and click **Next**. In production environment, you will want to use a separate account for each service.

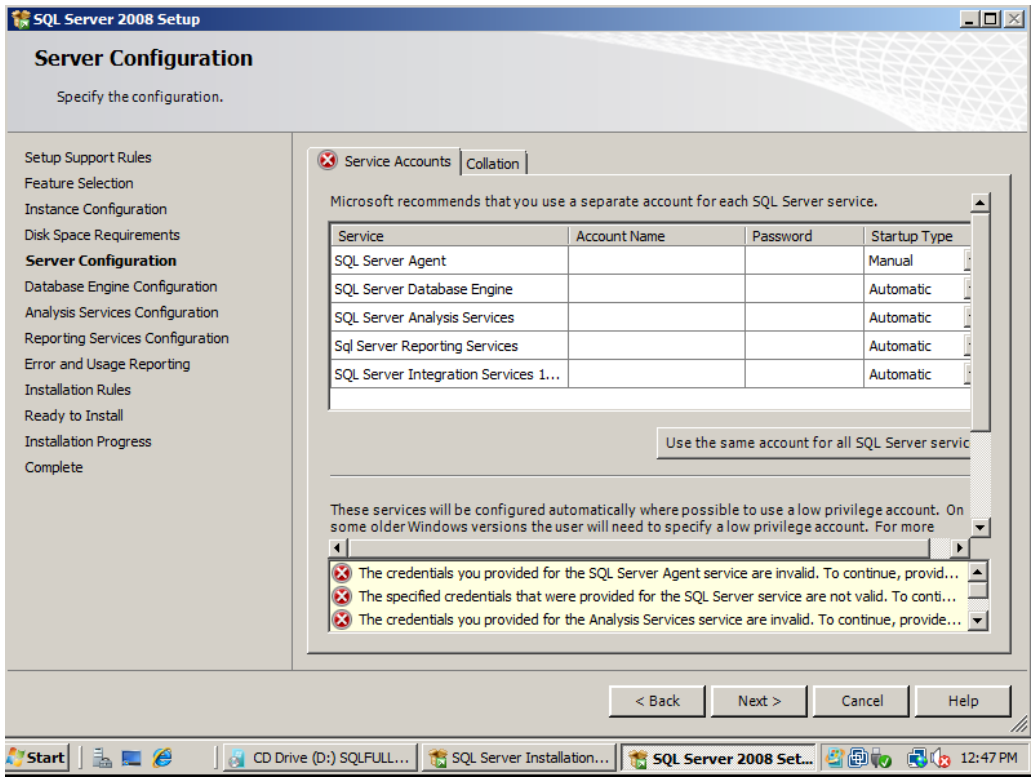

SQL Server 2008 Setup
Server Configuration
Specify the configuration.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Service Accounts
Collation
Microsoft recommends that you use a separate account for each SQL Server service.
Service
Account Name
Password
Startup Type
SQL Server Agent
Manual
SQL Server Database Engine
Automatic
SQL Server Analysis Services
Automatic
Sql Server Reporting Services
Automatic
SQL Server Integration Services 1...
Automatic
Use the same account for all SQL Server servic
These services will be configured automatically where possible to use a low privilege account. On some older Windows versions the user will need to specify a low privilege account. For more
The credentials you provided for the SQL Server Agent service are invalid. To continue, provid...
The specified credentials that were provided for the SQL Server service are not valid. To conti...
The credentials you provided for the Analysis Services service are invalid. To continue, provide...
< Back
Next >
Cancel
Help
Start
CD Drive (D:) SQLFULL...
SQL Server Installation...
SQL Server 2008 Set...
12:47 PM

Figure 33: *Server configuration*

56. If you remember the account, enter it directly in the **Account Name** or use **Browse** button to search the account name. Enter password and click **Ok**. We created an SQL service account (SQLAccount) earlier specifically for this step.

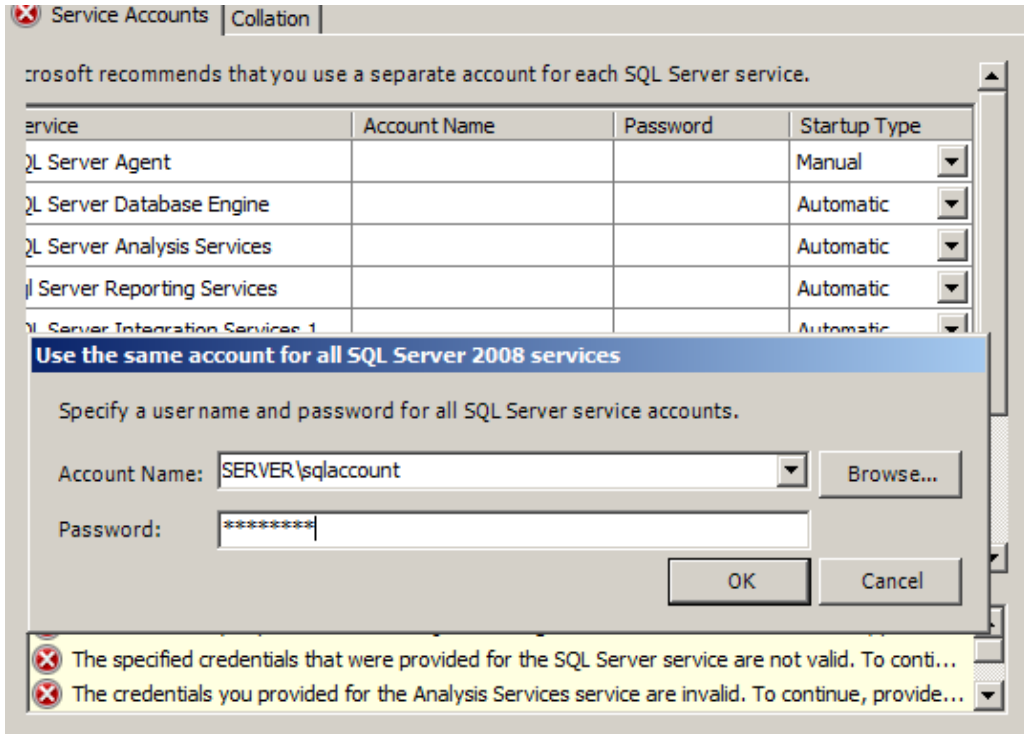

Service Accounts
Collation
crosoft recommends that you use a separate account for each SQL Server service.
ervice
Account Name
Password
Startup Type
QL Server Agent
Manual
QL Server Database Engine
Automatic
QL Server Analysis Services
Automatic
l Server Reporting Services
Automatic
Use the same account for all SQL Server 2008 services
Specify a user name and password for all SQL Server service accounts.
Account Name:
SERVER\sqlaccount
Browse...
Password:
OK
Cancel
The specified credentials that were provided for the SQL Server service are not valid. To conti...
The credentials you provided for the Analysis Services service are invalid. To continue, provide...

Figure 34: *SQL Server 2008 services account*

57. Click **Next**.

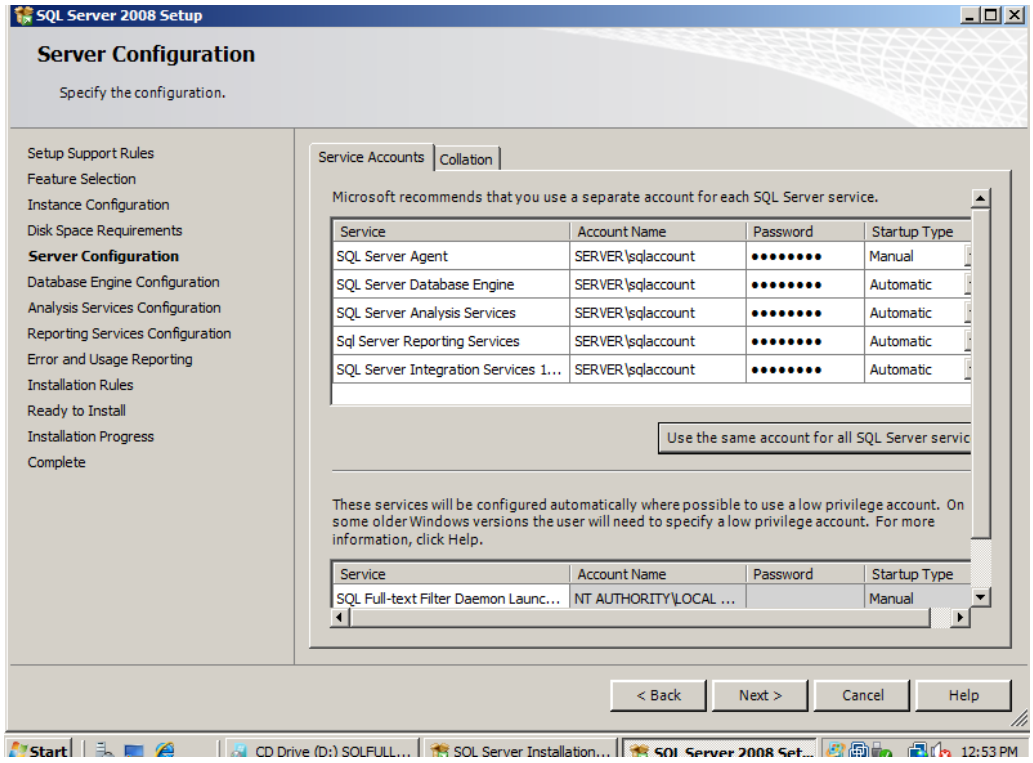


Figure 35: *Server configuration - accounts*

58. Click **Add Current User** button. This will add the currently logged in user as SQL Server Administrator. Click **Next**.

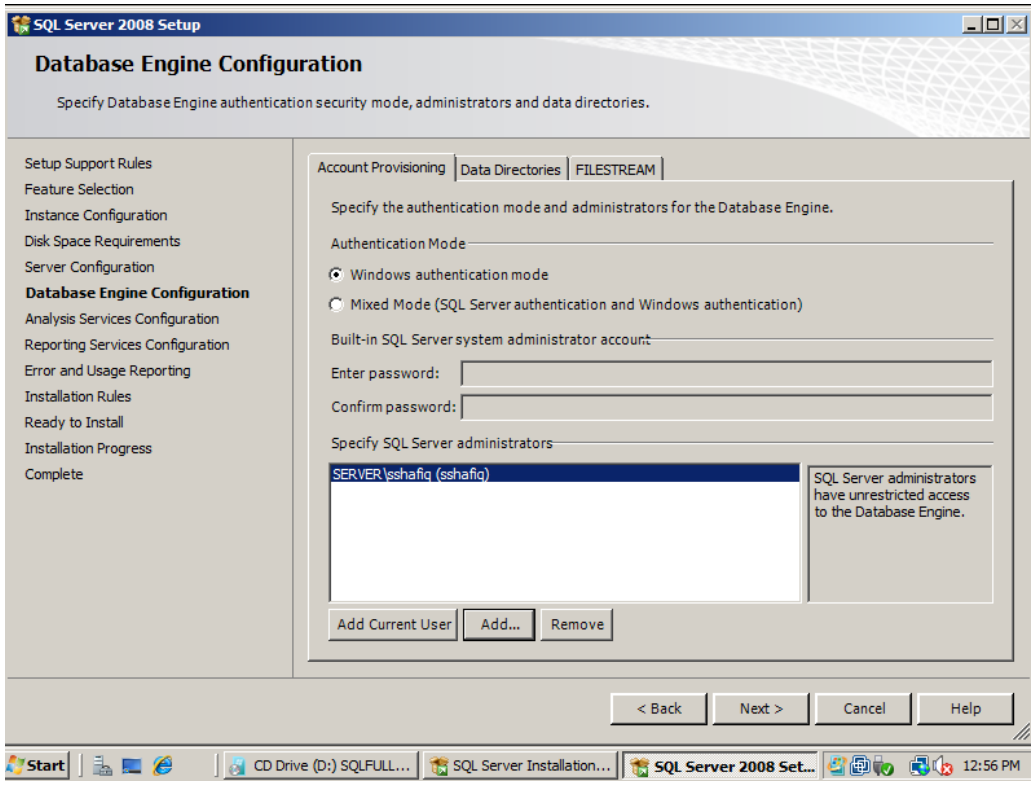


Figure 36: *Database engine configuration*

59. Again click **Add Current User** button. This user will have administrative permissions for Analysis Services.

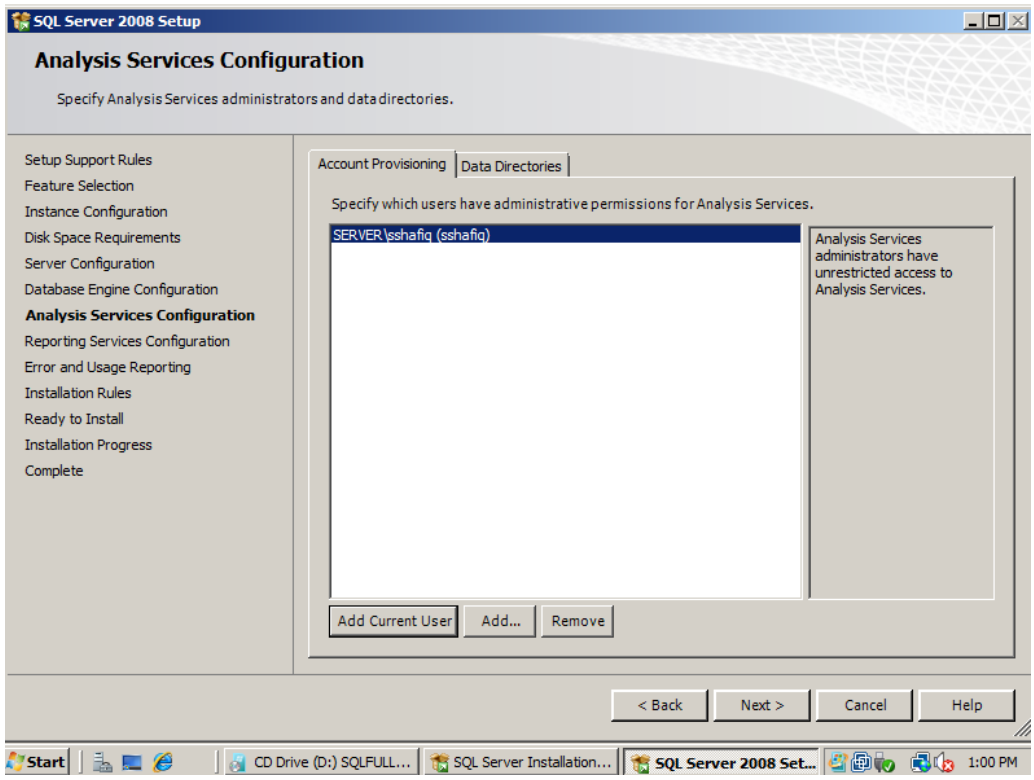


Figure 37: *Analysis services configuration*

You can also specify data directories for SQL Server Analysis services. Click on **Data Directories** tab to see the default directories. Click the ellipsis button to browse and select a new directory. You can select directories for data, log, temp and backup.

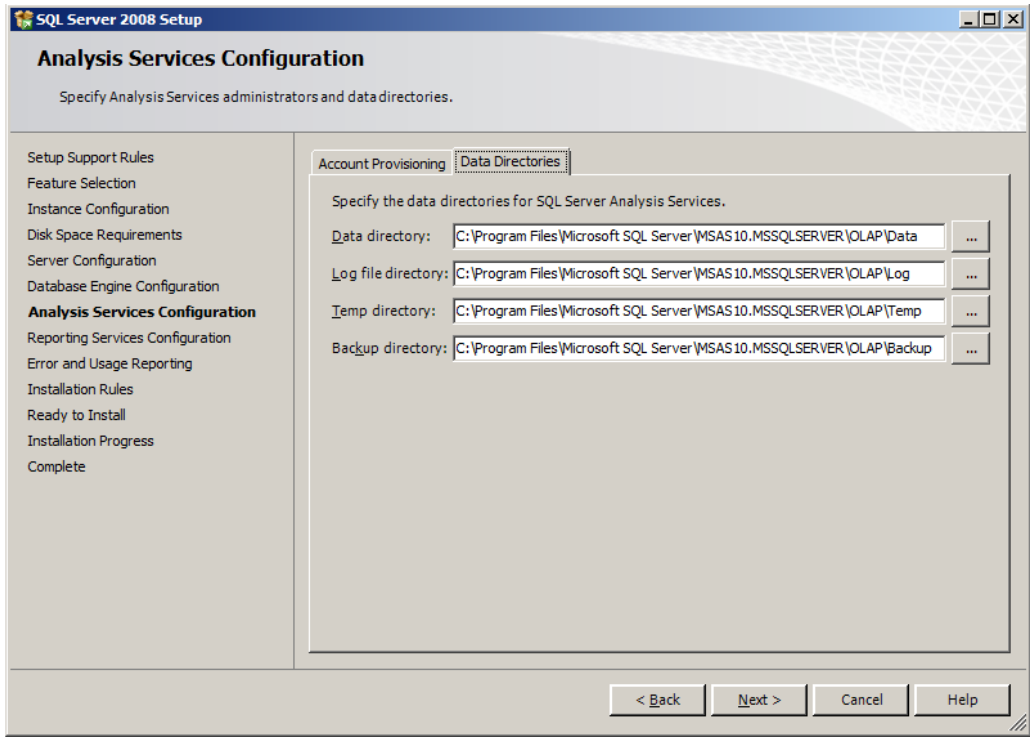


Figure 38: *Data directories for SQL Server Analysis Services*

60. Click **Next**.
61. You can configure **Reporting Services** on this screen. The default option is to install the native mode default configuration. This will install and configure reporting services for instant use. Even if SharePoint is not installed, you will be able to use reporting services for your applications. The second option is to install the SharePoint integrated mode default configuration. This will create report server database in SharePoint integrated mode and configure the report server to use the default values. Once you install SharePoint and reporting services Add-In for SharePoint, you will be able to use integrated operations.

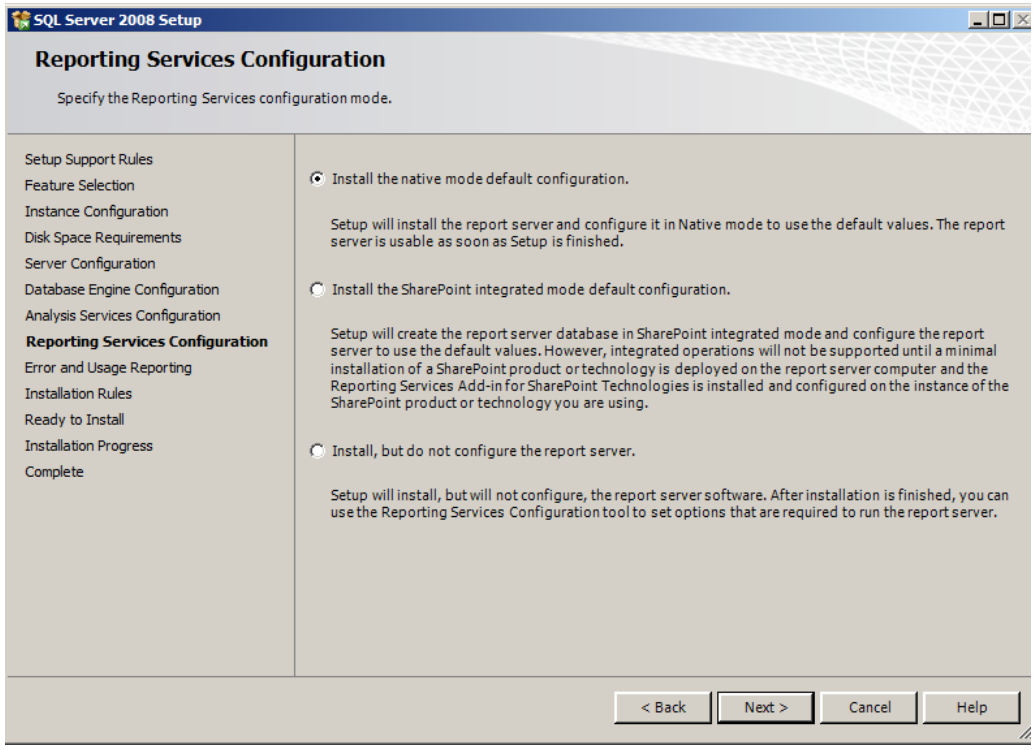

SQL Server 2008 Setup
Reporting Services Configuration
Specify the Reporting Services configuration mode.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Install the native mode default configuration.
Setup will install the report server and configure it in Native mode to use the default values. The report server is usable as soon as Setup is finished.
Install the SharePoint integrated mode default configuration.
Setup will create the report server database in SharePoint integrated mode and configure the report server to use the default values. However, integrated operations will not be supported until a minimal installation of a SharePoint product or technology is deployed on the report server computer and the Reporting Services Add-in for SharePoint Technologies is installed and configured on the instance of the SharePoint product or technology you are using.
Install, but do not configure the report server.
Setup will install, but will not configure, the report server software. After installation is finished, you can use the Reporting Services Configuration tool to set options that are required to run the report server.
< Back
Next >
Cancel
Help

Figure 39: *Reporting Services Configuration*

Use the default option **Install the native mode default configuration** and click **Next**.

62. Click **Next**.

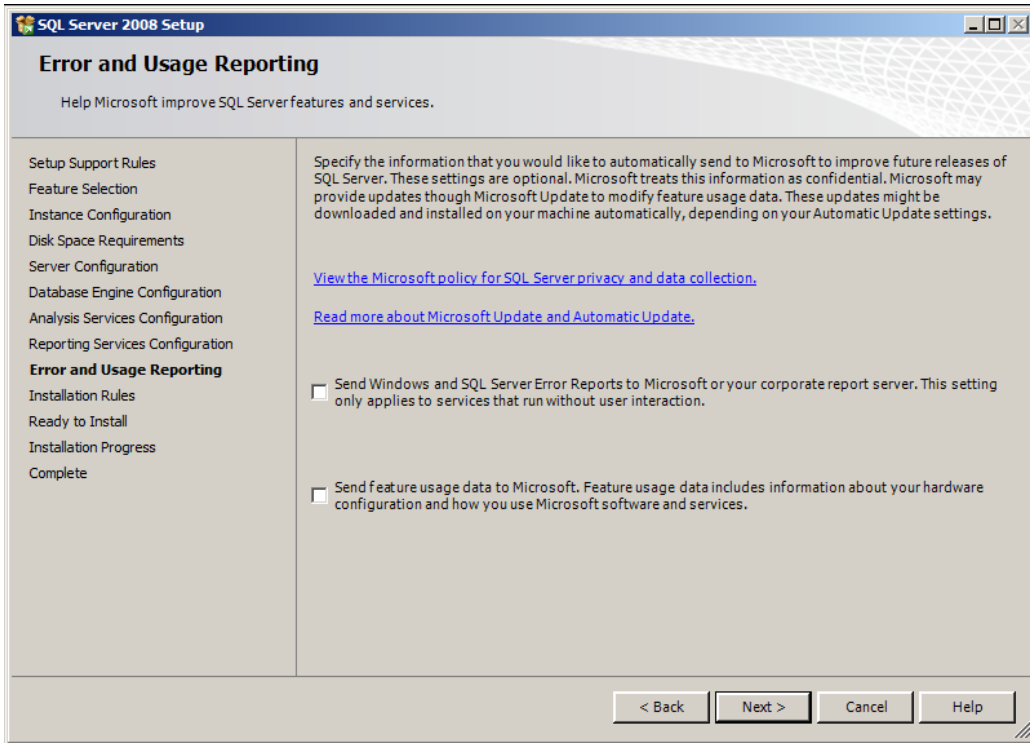

SQL Server 2008 Setup
Error and Usage Reporting
Help Microsoft improve SQL Server features and services.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Specify the information that you would like to automatically send to Microsoft to improve future releases of SQL Server. These settings are optional. Microsoft treats this information as confidential. Microsoft may provide updates though Microsoft Update to modify feature usage data. These updates might be downloaded and installed on your machine automatically, depending on your Automatic Update settings.
View the Microsoft policy for SQL Server privacy and data collection.
Read more about Microsoft Update and Automatic Update.
Send Windows and SQL Server Error Reports to Microsoft or your corporate report server. This setting only applies to services that run without user interaction.
Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use Microsoft software and services.
< Back
Next >
Cancel
Help

Figure 40: *Error and Usage Reporting*

63. Click **Show Details** button. This will show the status of each rule. Status should be **Passed** for each rule. Click **Next**.

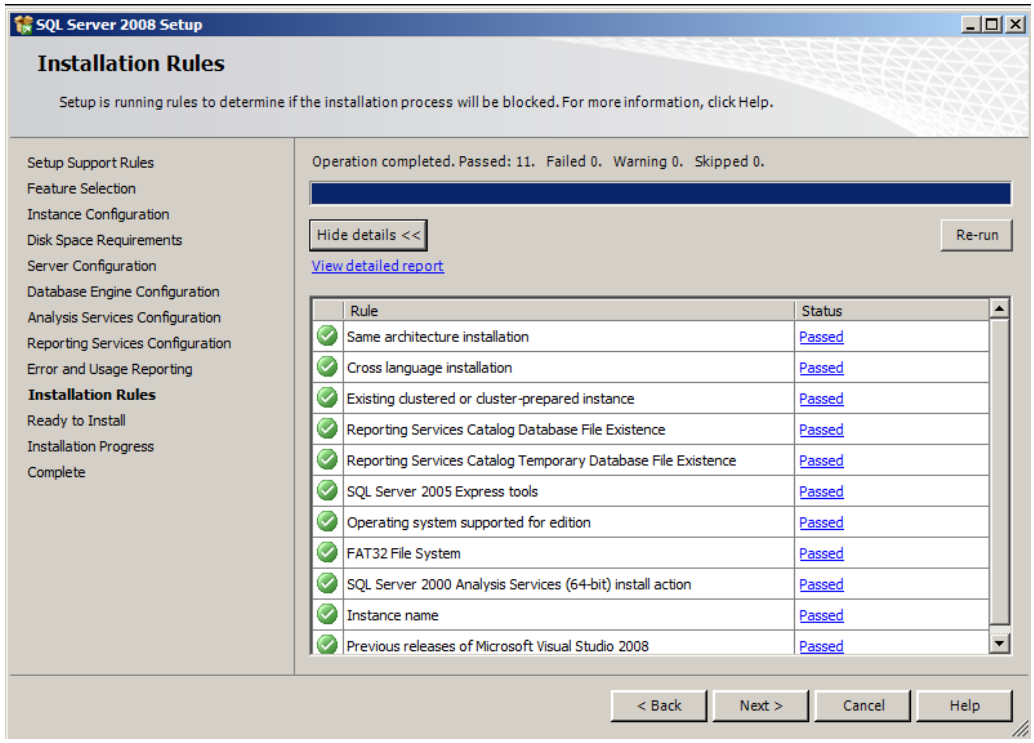


Figure 41: *Installation Rules*

64. Configuration is complete. SQL Server is ready to be installed now. Configuration file will be saved at the following path:

    C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20091228_003646\ConfigurationFile.ini

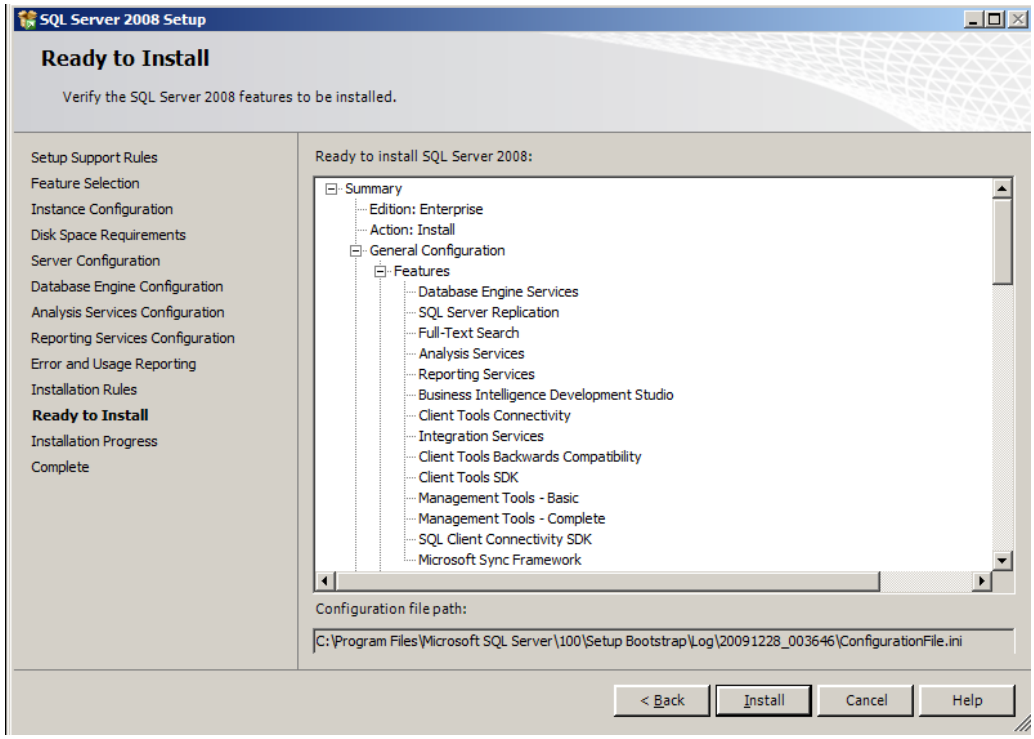


Figure 42: *SQL Server is ready to install*

Click **Install**.

Installation will take anywhere from 20 to 50 minutes depending on your computer's speed.

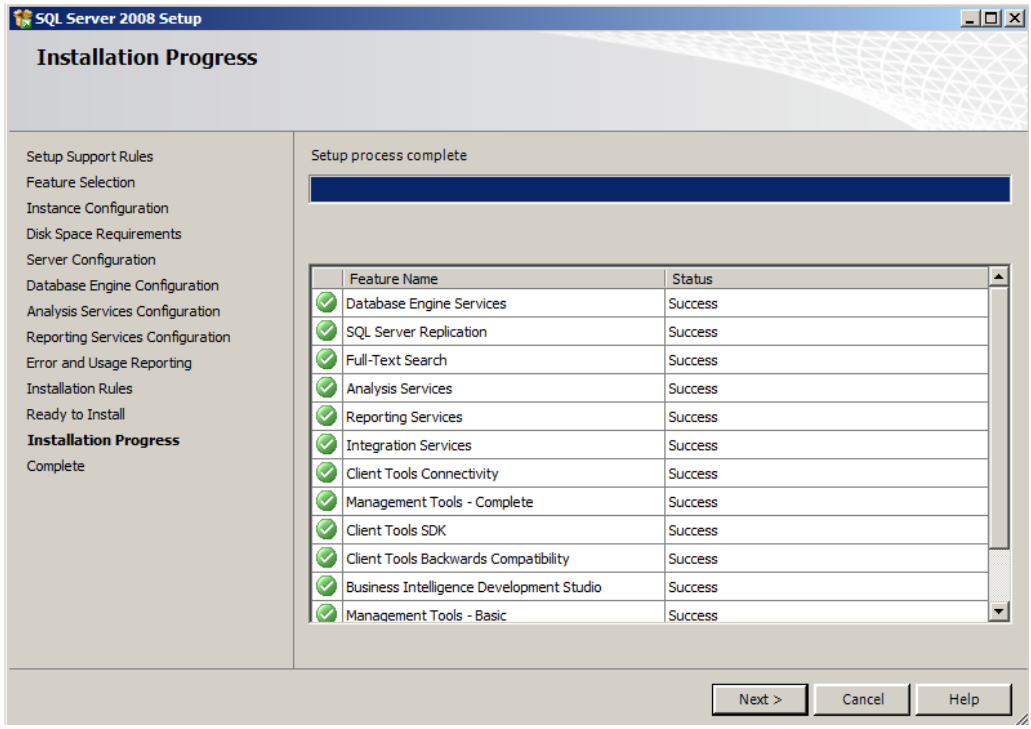


Figure 43: *SQL Server installation in progress*

Click **Next**.

65. Following screen will have a link to the summary log file. Supplemental information is also provided on this screen. Click **Close**. Your installation is now complete.

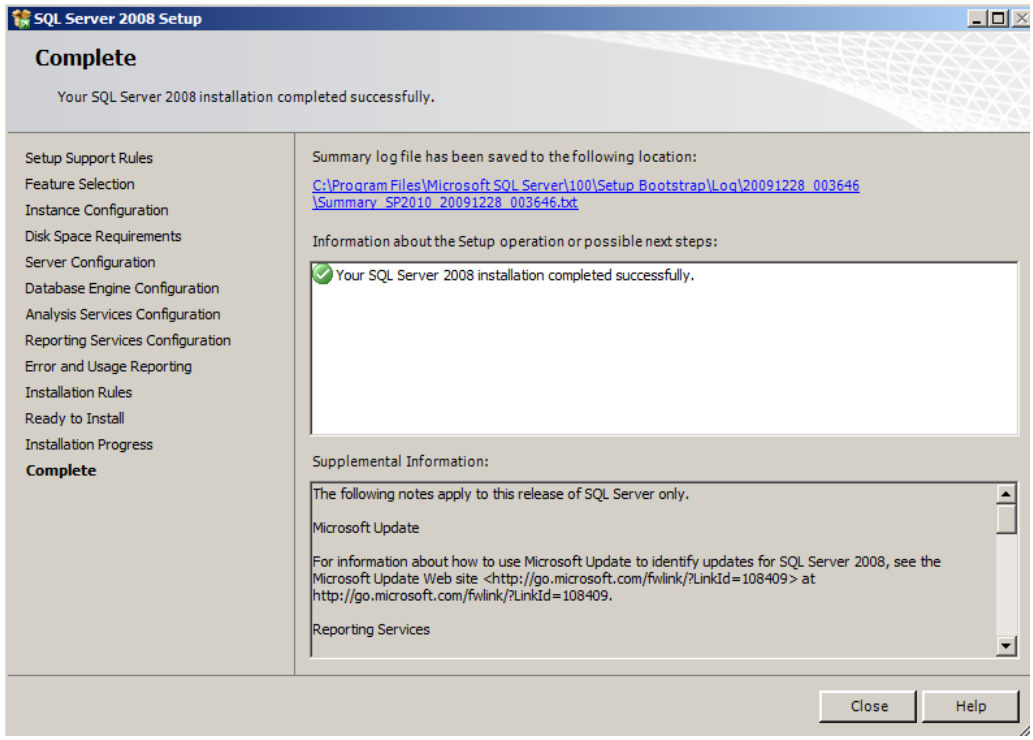

SQL Server 2008 Setup
Complete
Your SQL Server 2008 installation completed successfully.
Setup Support Rules
Feature Selection
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error and Usage Reporting
Installation Rules
Ready to Install
Installation Progress
Complete
Summary log file has been saved to the following location:
C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20091228_003646\Summary_SP2010_20091228_003646.txt
Information about the Setup operation or possible next steps:
Your SQL Server 2008 installation completed successfully.
Supplemental Information:
The following notes apply to this release of SQL Server only.
Microsoft Update
For information about how to use Microsoft Update to identify updates for SQL Server 2008, see the Microsoft Update Web site <http://go.microsoft.com/fwlink/?LinkId=108409> at http://go.microsoft.com/fwlink/?LinkId=108409.
Reporting Services
Close
Help

Figure 44: *SQL Server installation completed*

Install SQL Server 2008 Service Pack 1

66. You can skip this step if you have already downloaded SQL Server 2008 Service Pack 1.

    Download SQL Server 2008 Service Pack 1 from the following link:

http://www.microsoft.com/downloads/details.aspx?familyid=66AB3DBB-BF3E-4F46-9559-CCC6A4F9DC19&displaylang=en

The total download size is 899.5 MB. Download contains following software:

- SQLServer2008SP1-KB968369-IA64-ENU.exe (312.9 MB)
- **SQLServer2008SP1-KB968369-x64-ENU.exe (323.8 MB)**
- SQLServer2008SP1-KB968369-x86-ENU.exe (262.7 MB)

We only need service pack 1 for 64-bit systems (second option). The first option is for Itanium based systems. Click **Download** (second option) to download the software.

67. Run service pack installation package. It will extract all files to a folder on your system drive. Make sure the logged in user has full privileges to install files. Specially, the user must have write permissions on the system drive otherwise the extraction of files will fail with the message: **Operation was cancelled by the user.**
68. Click **Show Details** to see status of each rule. Click **Next**.
69. Accept the license terms (by checking the **I accept the license terms.** option) and click **Next**.

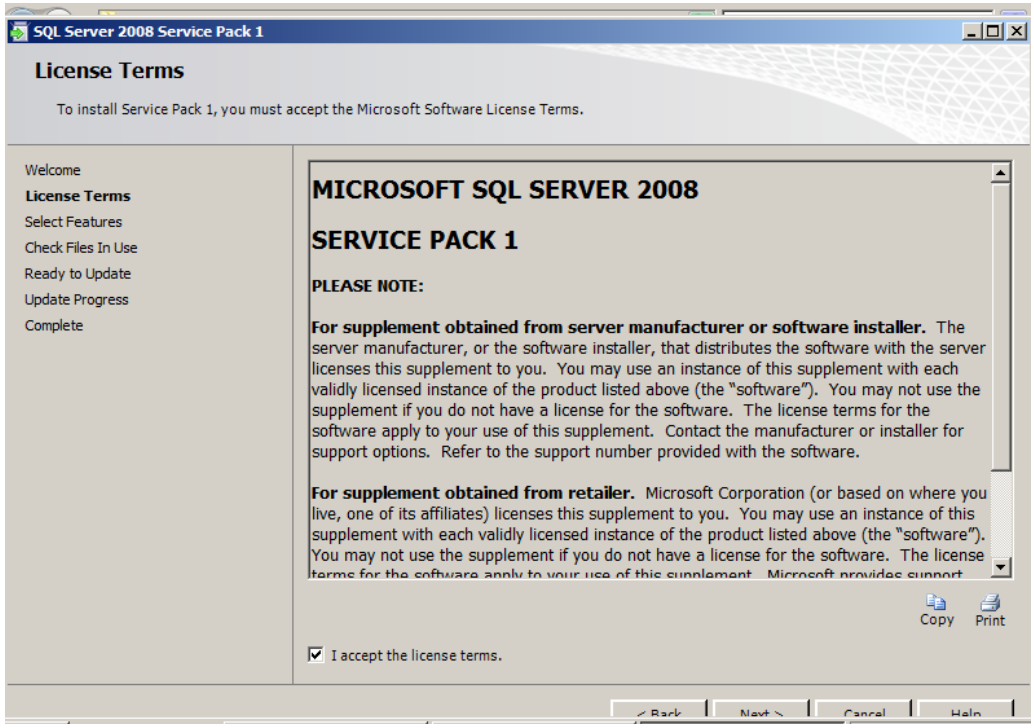

SQL Server 2008 Service Pack 1
License Terms
To install Service Pack 1, you must accept the Microsoft Software License Terms.
Welcome
License Terms
Select Features
Check Files In Use
Ready to Update
Update Progress
Complete
MICROSOFT SQL SERVER 2008
SERVICE PACK 1
PLEASE NOTE:
For supplement obtained from server manufacturer or software installer. The server manufacturer, or the software installer, that distributes the software with the server licenses this supplement to you. You may use an instance of this supplement with each validly licensed instance of the product listed above (the "software"). You may not use the supplement if you do not have a license for the software. The license terms for the software apply to your use of this supplement. Contact the manufacturer or installer for support options. Refer to the support number provided with the software.
For supplement obtained from retailer. Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. You may use an instance of this supplement with each validly licensed instance of the product listed above (the "software"). You may not use the supplement if you do not have a license for the software. The license
Copy
Print
I accept the license terms.
Next >
Cancel
Help

Figure 45: *SQL Server 2008 Service Pack 1 License Terms*

70. Click **Next**. Installation will start.

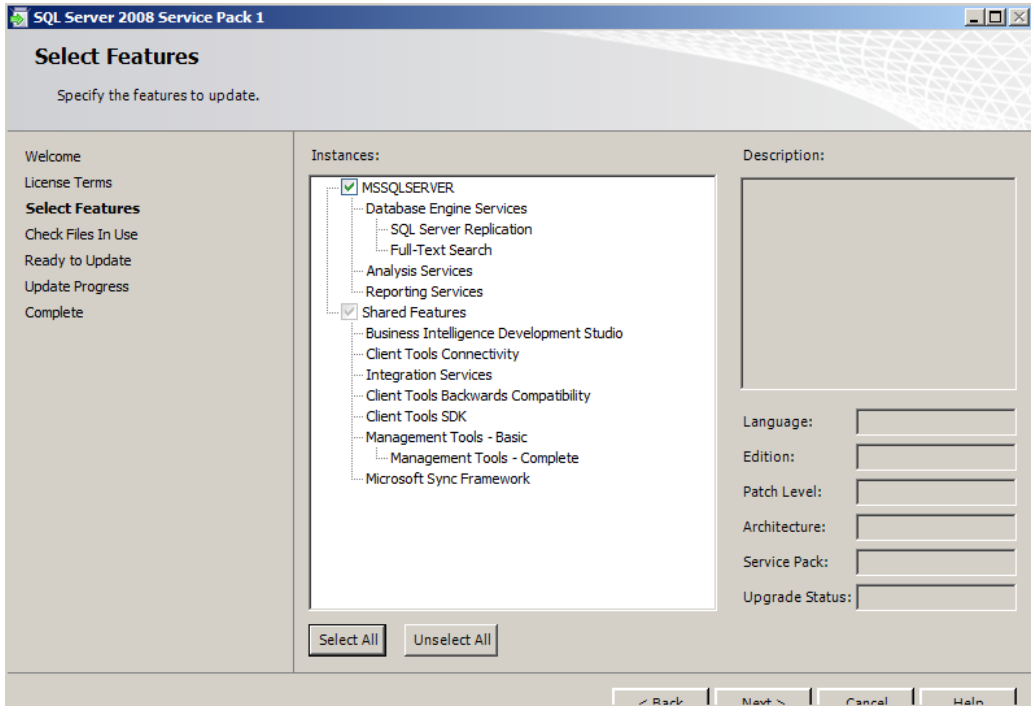


Figure 46: *Select features to install*

71. Files in use will be checked. Click **Next**.

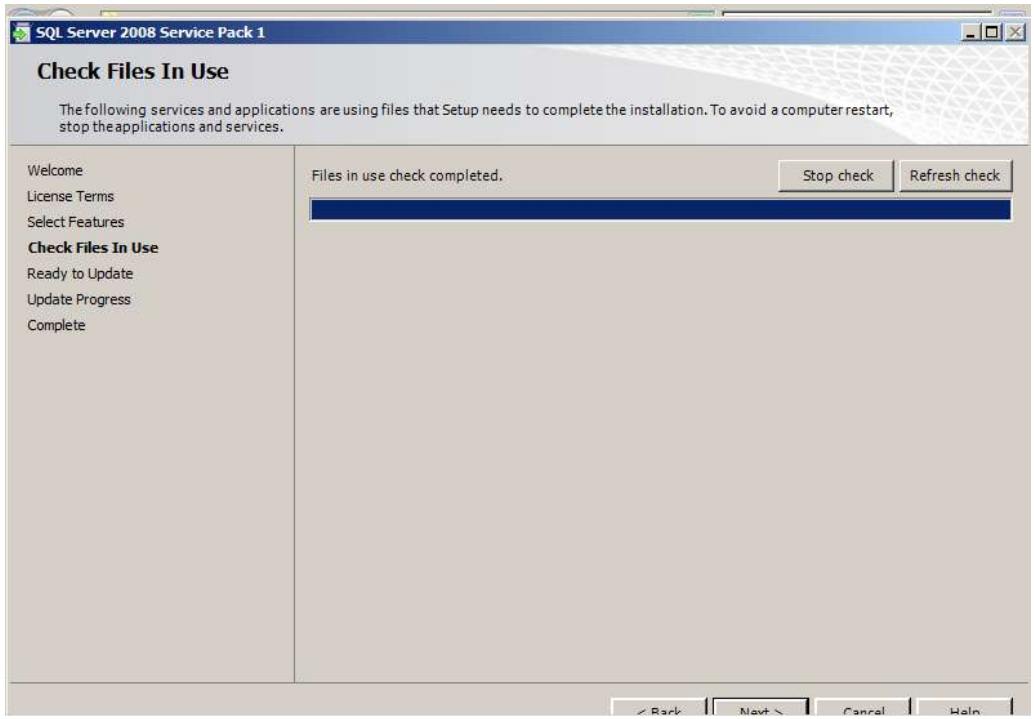

SQL Server 2008 Service Pack 1
Check Files In Use
The following services and applications are using files that Setup needs to complete the installation. To avoid a computer restart, stop the applications and services.
Welcome
License Terms
Select Features
Check Files In Use
Ready to Update
Update Progress
Complete
Files in use check completed.
Stop check
Refresh check
< Back
Next >
Cancel
Help

Figure 47: *Check files in use*

72. Click **Update** to start the process. Process will take approx. 20 – 40 minutes to complete depending on your computer's speed.

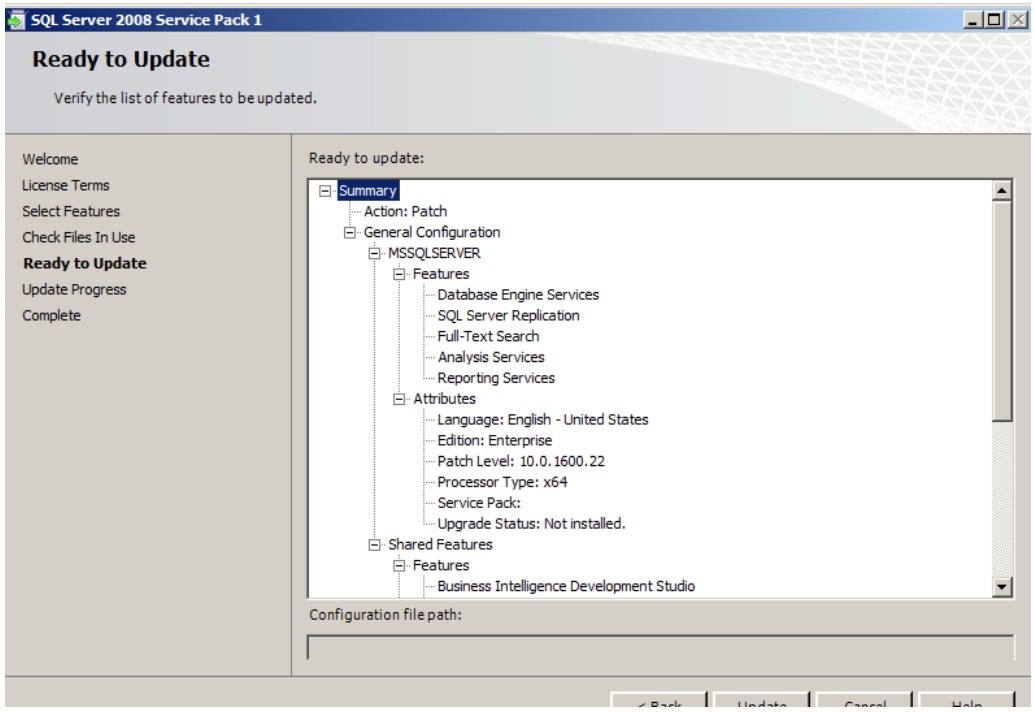


Figure 48: *Features to be installed*

73. Click **Next**.

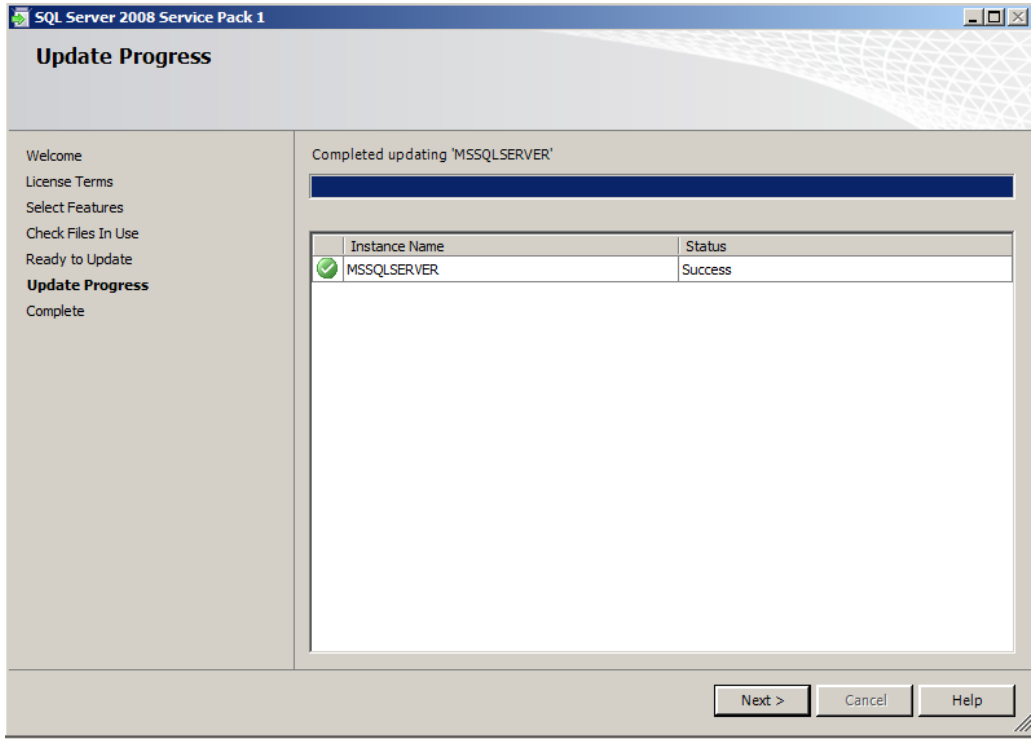


Figure 49: *Update progress*

74. Click **Close**.

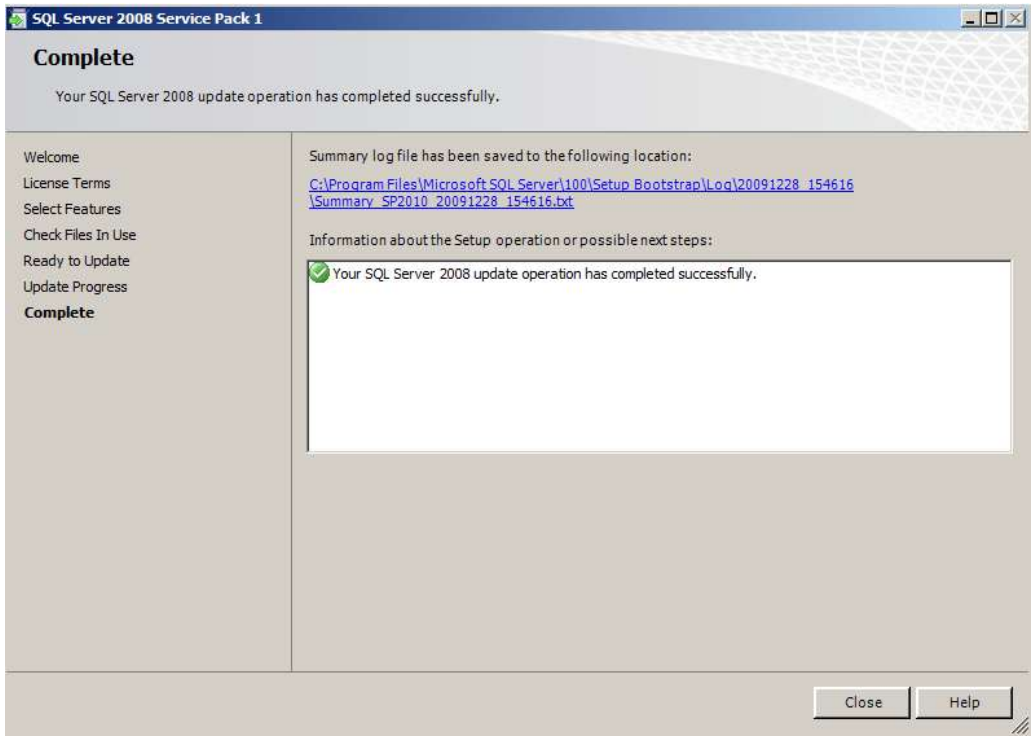

SQL Server 2008 Service Pack 1
Complete
Your SQL Server 2008 update operation has completed successfully.
Welcome
License Terms
Select Features
Check Files In Use
Ready to Update
Update Progress
Complete
Summary log file has been saved to the following location:
C:\Program Files\Microsoft SQL Server\100\Setup Bootstrap\Log\20091228_154616\Summary_SP2010_20091228_154616.txt
Information about the Setup operation or possible next steps:
Your SQL Server 2008 update operation has completed successfully.
Close
Help

Figure 50: *Complete status*

Install Cumulative update package 2 for SQL Server 2008 SP 1

75. Download Cumulative update package 2 for SQL Server 2008 Service Pack 1 from the following location:

    http://support.microsoft.com/kb/970315

    This cumulative update package contains hotfixes for the Microsoft SQL Server 2008 issues that have been fixed since the release of SQL Server 2008 Service Pack 1.

    Just under the heading you will see an icon with title **Hotfix Download Available**. There will be a link **View and request hotfix downloads** underneath the title. Click it to go to the download page. You can also go to that page directly by clicking the following link:

http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=970315&kbln=en-us

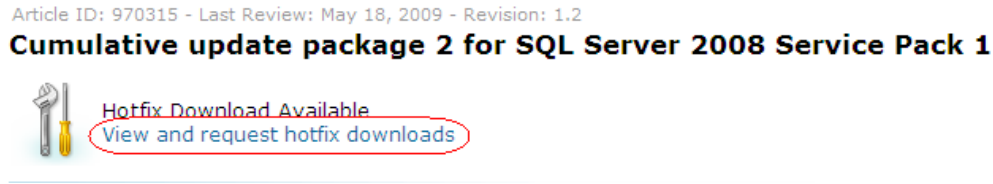

Article ID: 970315 - Last Review: May 18, 2009 - Revision: 1.2
Cumulative update package 2 for SQL Server 2008 Service Pack 1
Hotfix Download Available
View and request hotfix downloads

Figure 51: *View and request hotfix downloads*

76. Click **I Accept** button.
77. Scroll down and click **Show hotfixes for all platforms and languages (6)** link.
78. Check the downloads for the x64 platform.

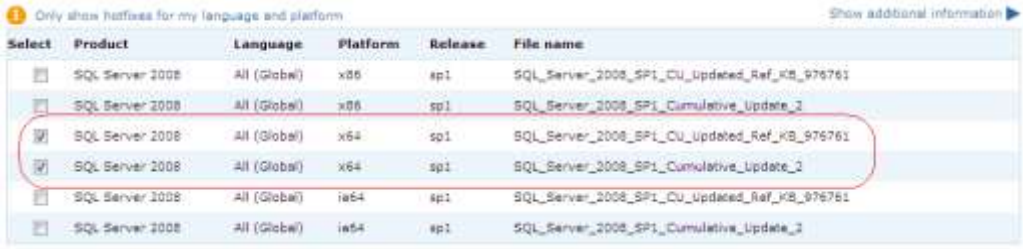

Only show hotfixes for my language and platform
Show additional information
Select
Product
Language
Platform
Release
File name
SQL Server 2008 All (Global) x86 sp1 SQL_Server_2008_SP1_CU_Updated_Ref_KB_976761
SQL Server 2008 All (Global) x86 sp1 SQL_Server_2008_SP1_Cumulative_Update_2
SQL Server 2008 All (Global) x64 sp1 SQL_Server_2008_SP1_CU_Updated_Ref_KB_976761
SQL Server 2008 All (Global) x64 sp1 SQL_Server_2008_SP1_Cumulative_Update_2
SQL Server 2008 All (Global) ia64 sp1 SQL_Server_2008_SP1_CU_Updated_Ref_KB_976761
SQL Server 2008 All (Global) ia64 sp1 SQL_Server_2008_SP1_Cumulative_Update_2

Figure 52: *Hotfix downloads for the x64 platform*

79. Enter your email address below and type the characters from the captcha figure and click **Request hotfix** button. Hotfixes will be sent to your email address. Check your email. There will two links in your email along with the passwords required to download the hotfixes. Download both hotfixes to your hard disk. First download will be 226 MB in size and the second will be 181 MB.
80. Run both downloaded hotfixes one by one.

If you get **Destination folder access denied** error when copying file from host to guest machine using VM's shared folder, copy the file directly from the host. Don't use VM's shared folder. Copy from the host and paste on to the VM.

List of hotfixes downloaded in this cumulative update may change in future. As of now, following two hotfix files are part of this update:

- 381569_intl_x64_zip.exe
- 398850_intl_x64_zip.exe

81. When you run the executable file, you will be prompted to continue or exit. Click **Continue**.

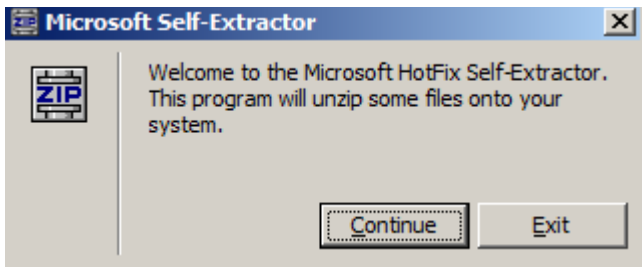

Microsoft Self-Extractor
ZIP
Welcome to the Microsoft HotFix Self-Extractor. This program will unzip some files onto your system.
Continue
Exit

Figure 53: *Extract hotfix files*

82. Select folder to unzip files and click **Ok**.

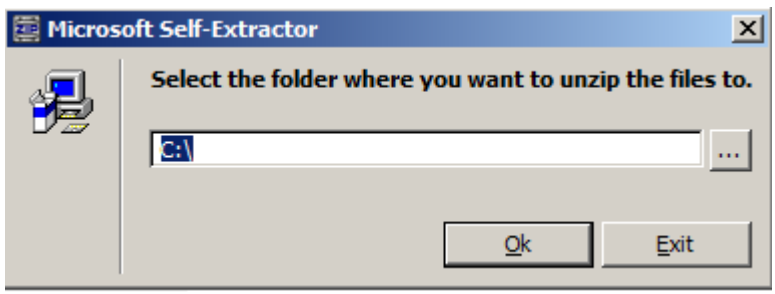


Figure 54: *Select folder*

83. You will be prompted to enter password for this file. Check your email. It contains passwords for both files. Passwords sent in the email are time sensitive so make sure you use the correct password. Enter the password and click **Ok**.
84. After files have been extracted to your selected folder, run the executable file.

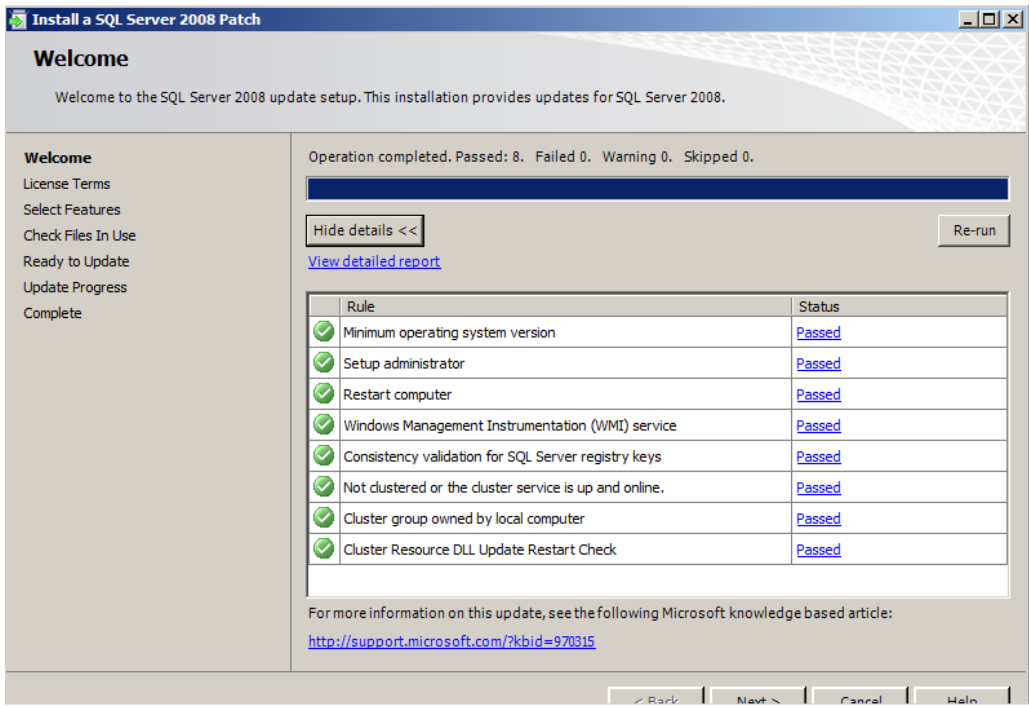


Figure 55: *Install SQL Server 2008 patch*

85. Click **Next**.
86. Accept license terms and click **Next**.
87. Click **Next**.

Kill process **fdhost.exe** to avoid system restart. **fdhost.exe** is a SQL full text host. If you don't kill this process now, you will be prompted to restart your system after the installation has completed.

88. Click **Next**.
89. Click **Update**.

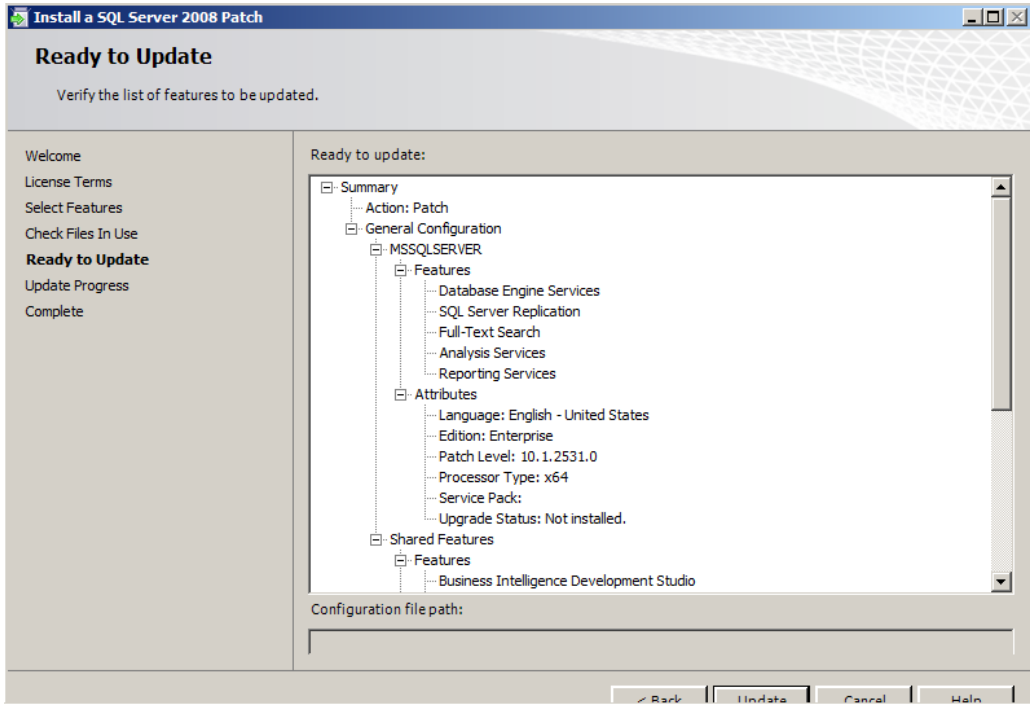


Figure 56: *Configuration*

Update will take some time depending on your computer's machine.

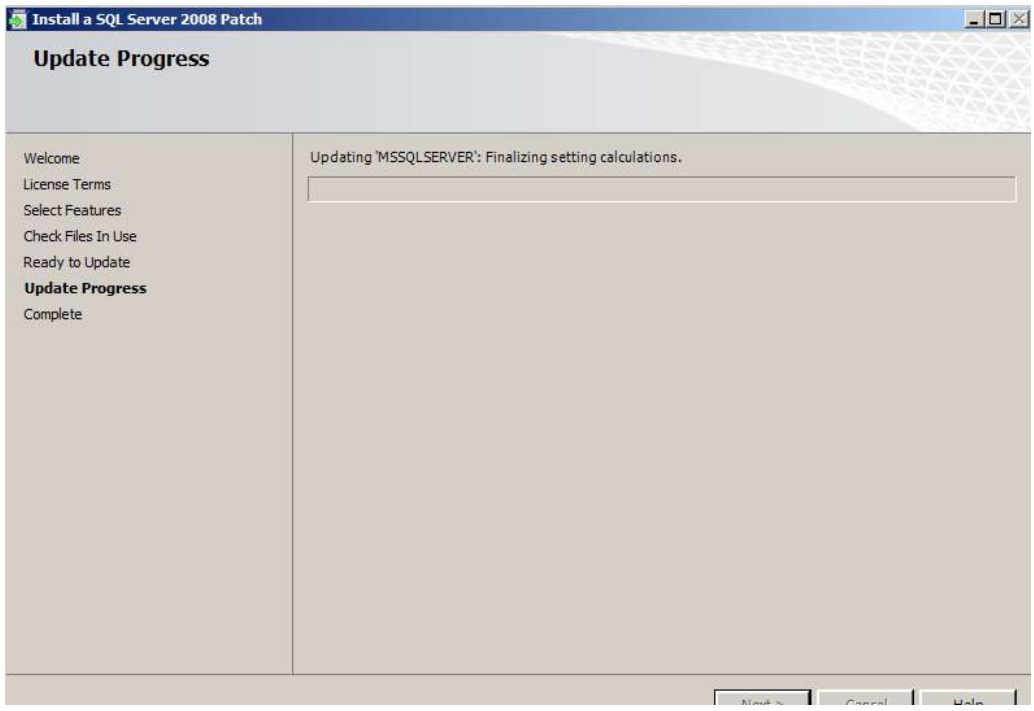


Figure 57: *Installation in progress*

90. Click **Next**.
91. Click **Close**.
92. Run second hotfix package and follow same steps as shown above to complete the installation.

Download and Install ADOMD.NET

93. Go to **System Drive:\Windows\Assembly** folder.
94. Check if **Microsoft.AnalysisServices.AdomdClient** assembly exist there. This assembly should be there if you installed Analysis Services as part of your SQL Server installation. If it's not there then you need to install ADOMD.NET separately. If it exists then the next step is to check its version.
95. Right-click **Microsoft.AnalysisServices.AdomdClient** and select **Properties**.
96. Click **Version** tab.
97. Verify the version includes 10.50.<build number>. If the version number is less than 10.50.<build number>, then you need to install ADOMD.NET.

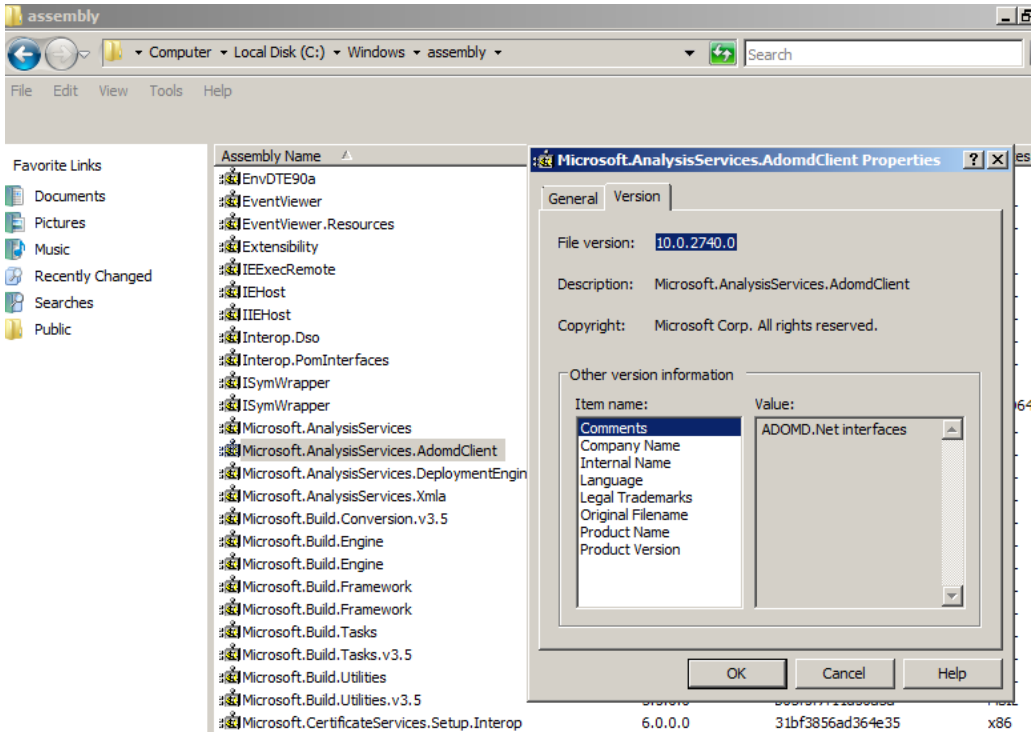


Figure 58: *Check version number*

You can skip steps that show how to download and install ADOMD.NET next.

You also need ADOMD.NET on Web Front-End Servers running Central Administration. After installing SharePoint, make sure ADOMD.NET exists on Web Front-End Servers. If it's not there, install it manually on all Front-End Servers. This library is used by PowerPivot Management Dashboard in Central Administration to access internal data that provides reporting data on PowerPivot query processing and server health in the farm.

Download ADOMD.NET

98. Download ADOMD.NET from the following link:

    http://go.microsoft.com/fwlink/?LinkId=130651&clcid=0x409

Install ADOMD.NET

99. Run setup package.
100. Click **Next**.

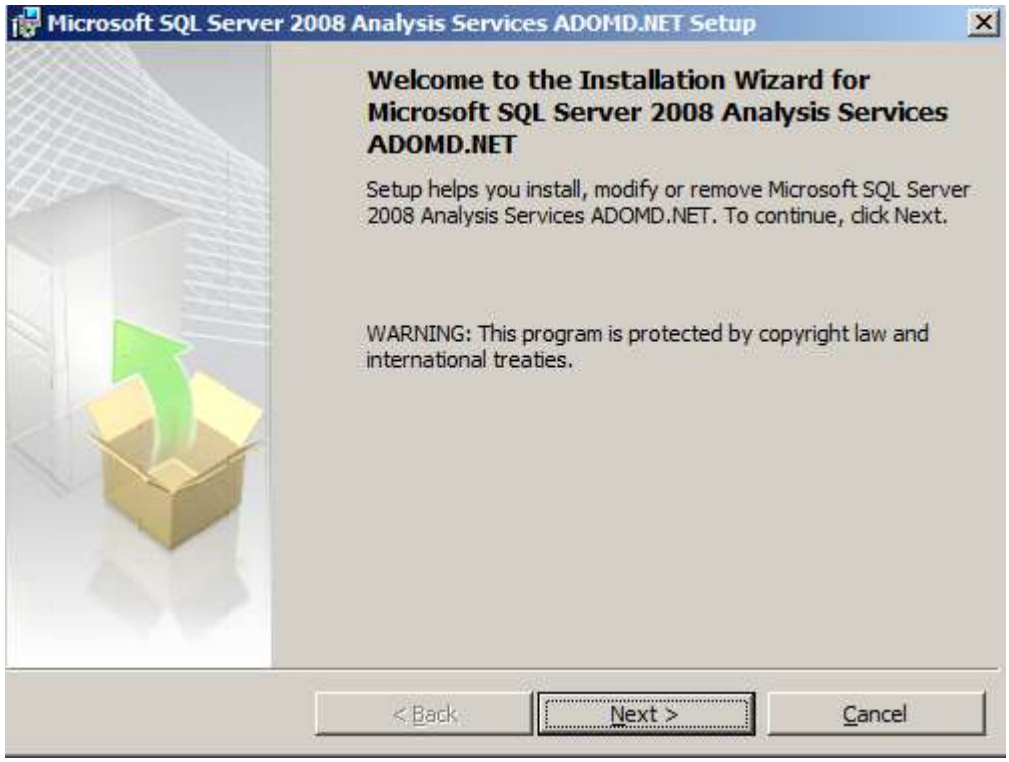

Microsoft SQL Server 2008 Analysis Services ADOMD.NET Setup
Welcome to the Installation Wizard for Microsoft SQL Server 2008 Analysis Services ADOMD.NET
Setup helps you install, modify or remove Microsoft SQL Server 2008 Analysis Services ADOMD.NET. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

Figure 59: *Install ADOMD.NET*

101. Accept license terms and click **Install**.

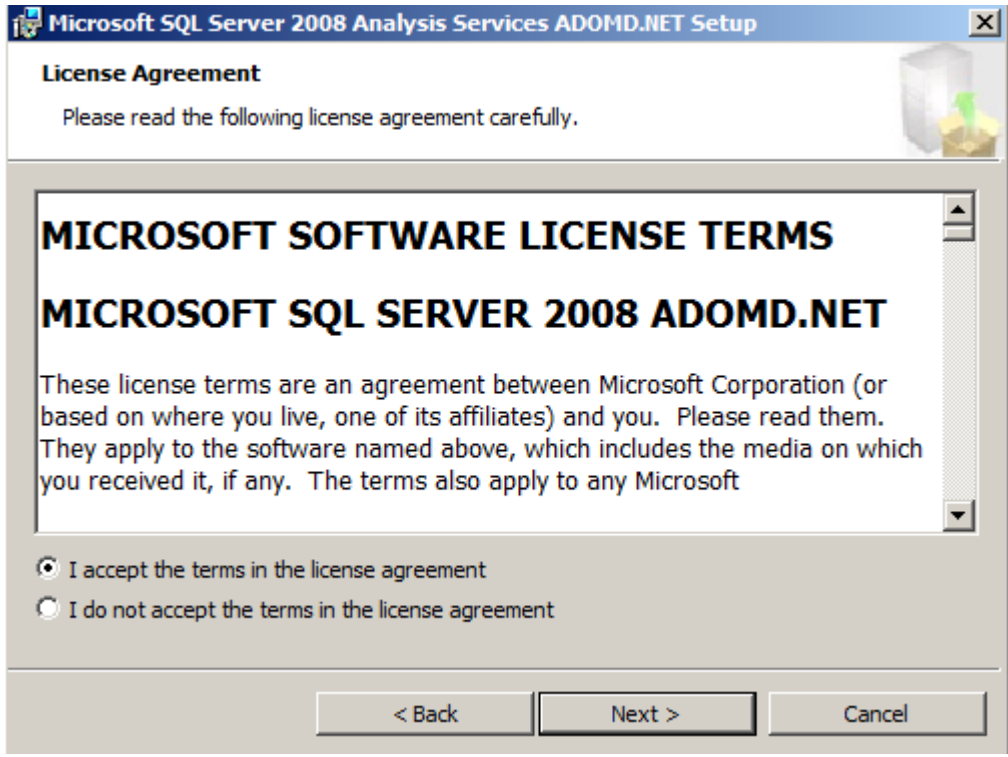

Microsoft SQL Server 2008 Analysis Services ADOMD.NET Setup
License Agreement
Please read the following license agreement carefully.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2008 ADOMD.NET
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
I accept the terms in the license agreement
I do not accept the terms in the license agreement
< Back
Next >
Cancel

Figure 60: *Accept license terms*

102. Click **Finish**.

Download and Install Geneva Framework 2 Beta

103. Download Geneva Framework from the following link:

http://download.microsoft.com/download/F/3/D/F3D66A7E-C974-4A60-B7A5-382A61EB7BC6/MicrosoftGenevaFramework.amd64.msi

This is a tricky step. The Framework version downloaded for pre-beta product doesn't work with the beta. The link that search for Geneva Framework 2 Beta returns is as following:

http://go.microsoft.com/fwlink/?LinkID=165752

Even this install won't work and you will get following error during the SharePoint installation:

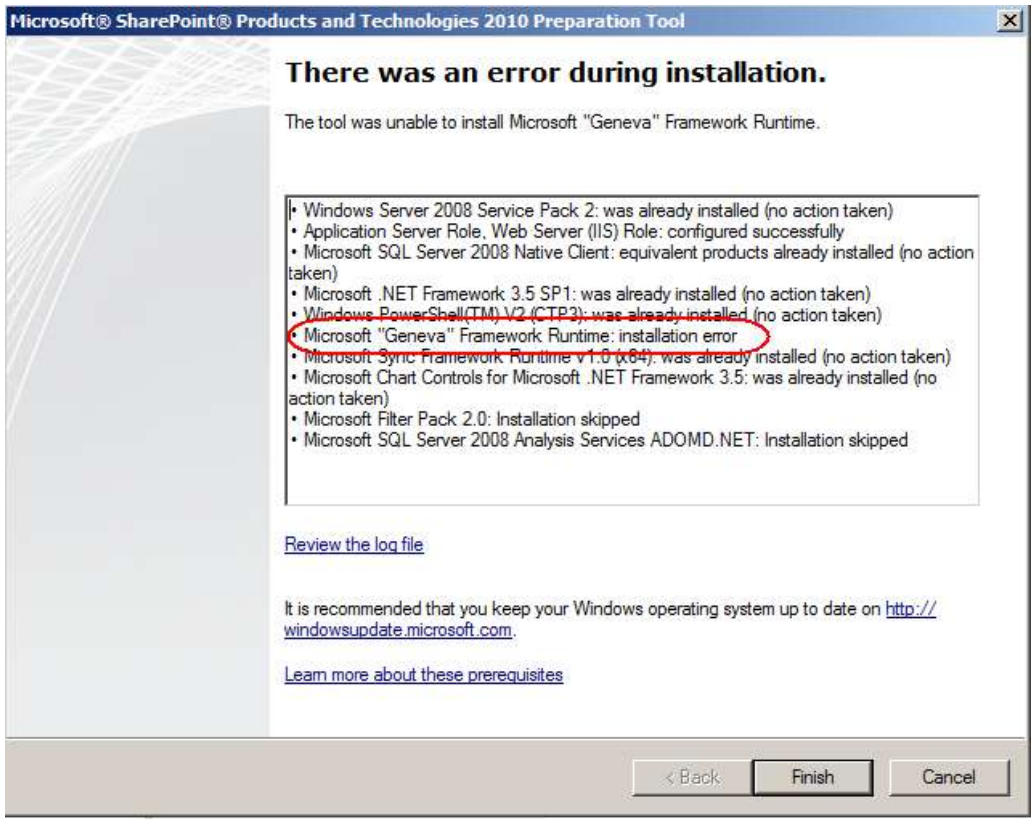

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
There was an error during installation.
The tool was unable to install Microsoft "Geneva" Framework Runtime.
• Windows Server 2008 Service Pack 2: was already installed (no action taken)
• Application Server Role, Web Server (IIS) Role: configured successfully
• Microsoft SQL Server 2008 Native Client: equivalent products already installed (no action taken)
• Microsoft .NET Framework 3.5 SP1: was already installed (no action taken)
• Windows PowerShell(TM) V2 (CTP3): was already installed (no action taken)
• Microsoft "Geneva" Framework Runtime: installation error
• Microsoft Sync Framework Runtime v1.0 (x64): was already installed (no action taken)
• Microsoft Chart Controls for Microsoft .NET Framework 3.5: was already installed (no action taken)
• Microsoft Filter Pack 2.0: Installation skipped
• Microsoft SQL Server 2008 Analysis Services ADOMD.NET: Installation skipped
Review the log file
It is recommended that you keep your Windows operating system up to date on http://windowsupdate.microsoft.com.
Learn more about these prerequisites
< Back
Finish
Cancel

Figure 61: *Geneva framework error*

So make sure you download the package from the link given here and not use the one that you may have already downloaded.

If you had installed the wrong version, just right-click the downloaded package and select **Uninstall**. Make sure you are logged in as administrator. This will uninstall the package. You can also uninstall by going to control panel and removing the software from there. You can either install the new package after uninstalling the old one or you can run the SharePoint installer and that will take care of installing the correct package.

104. Run downloaded package.

Microsoft "Geneva" Framework Runtime Setup
Please read the Microsoft "Geneva" Framework Runtime License Agreement
MICROSOFT PRE-RELEASE SOFTWARE LICENSE TERMS
MICROSOFT SOFTWARE CODE NAMED "GENEVA"
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the pre-release software named above, which includes the media on
I accept the terms in the License Agreement
Print
Back
Install
Cancel

Figure 62: *Accept license terms*

105. Accept license terms and click **Install**.
106. Click **Finish**.

Download and Install Microsoft Sync Framework v1.0

107. Download Microsoft Sync Framework v1.0 from the following link:

http://go.microsoft.com/fwlink/?LinkID=141237&clcid=0x409

Requirement is to install v1.0 but v2.0 is also available and can be downloaded from the following link:

http://www.microsoft.com/downloads/details.aspx?FamilyID=109DB36E-CDD0-4514-9FB5-B77D9CEA37F6&displaylang=en

I installed v2.0 and would suggest that you also download v2.0.

108. Run downloaded package and click **Next**.

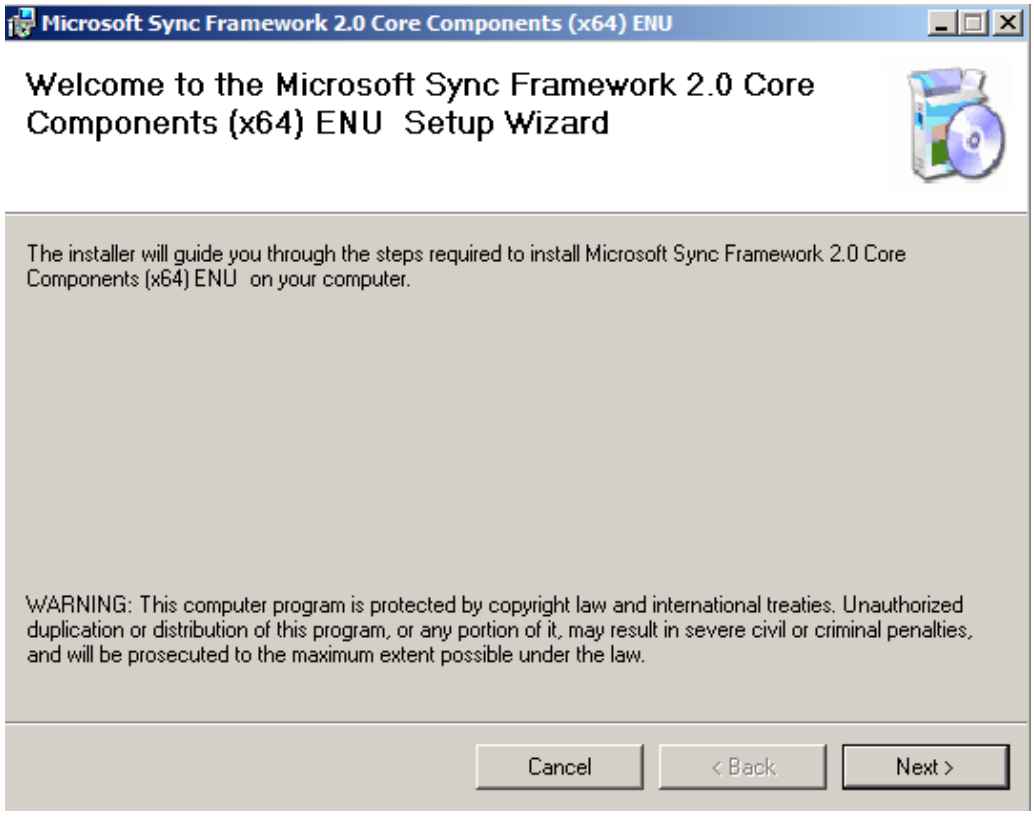

Microsoft Sync Framework 2.0 Core Components (x64) ENU
Welcome to the Microsoft Sync Framework 2.0 Core Components (x64) ENU Setup Wizard
The installer will guide you through the steps required to install Microsoft Sync Framework 2.0 Core Components (x64) ENU on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

Figure 63: *Microsoft Sync Framework 2.0 Core Components*

109. Accept license terms and click **Next**.
110. Click **Next** to start installation.

Download and Install Microsoft Filter Pack v2.0

111. Download Microsoft Filter Pack v2.0 from the following link:

http://go.microsoft.com/fwlink/?LinkId=166504

112. Run the downloaded package. Don't be confused by the title shown in the downloaded package. The title says its v1.0.

Microsoft Filter Pack 1.0
Welcome to the Microsoft Filter Pack 1.0 Setup Wizard
The installer will guide you through the steps required to install the Microsoft Filter Pack 1.0 on your computer.
This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
Next >

Figure 64: *Microsoft Filter Pack 1.0*

113. Click **Next**.
114. Accept license terms and click **Next**.
115. Click **Ok** after the installation has completed.

Download and Install Chart Controls from .NET Framework 3.5

116. You can download Chart Controls from the following link:

    http://go.microsoft.com/fwlink/?LinkID=141512

117. Run downloaded package.
118. Click **Next**.

119. Accept license terms and click **Next**.
120. Click **Finish**.

Download and Install PowerShell v2.0 CTP3

121. This is the tricky part. PowerShell v2.0 CTP3 can be downloaded from the following link:

    http://go.microsoft.com/fwlink/?LinkId=165758

    It is recommended that previous version of PowerShell be removed before installing the new one. If you go to control panel and check if PowerShell is already installed, you will not see it listed there. Assuming it is not installed, you will attempt to install the new version but it will give you an error that will ask you to remove the previous version before installing this new version. Confused? Rightly so! PowerShell v1.0 is installed on 64 bit systems in the following location:

    System Drive:\Windows\System32\WindowsPowerShell\v1.0

    Add/Remove programs does not give you a way to remove it. You can remove keys from the registry and delete this folder manually but that is not a recommended approach. Instead, I would suggest you download the package given in the following knowledge base article:

    http://www.microsoft.com/downloads/details.aspx?FamilyId=d37e25cf-db05-4b23-a852-cdf865d81b82&displaylang=en

This will install the newer version without prompting you to remove the older version.

122. Run downloaded package.

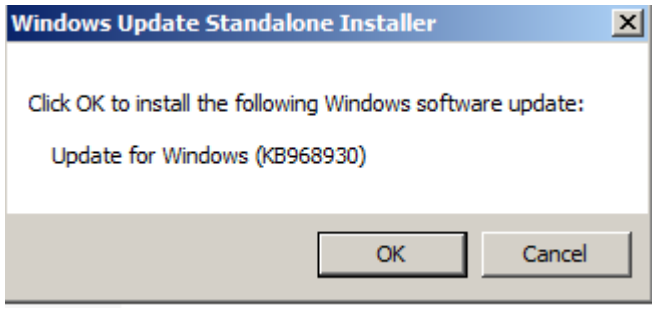


Figure 65: *KB968930*

123. Click **Ok**.
124. Click **I Accept**.
125. Click **Restart Now** for the changes to take effect.

Download and Install ADO.NET Data Services v1.5 CTP2

126. Download ADO.NET (for Windows Server 2008 SP2) from the following link:

    http://go.microsoft.com/fwlink/?LinkId=158354

    You can download ADO.NET for Windows Server 2008 R2 from the following link:

    http://go.microsoft.com/fwlink/?LinkId=159780

127. Run the downloaded package.

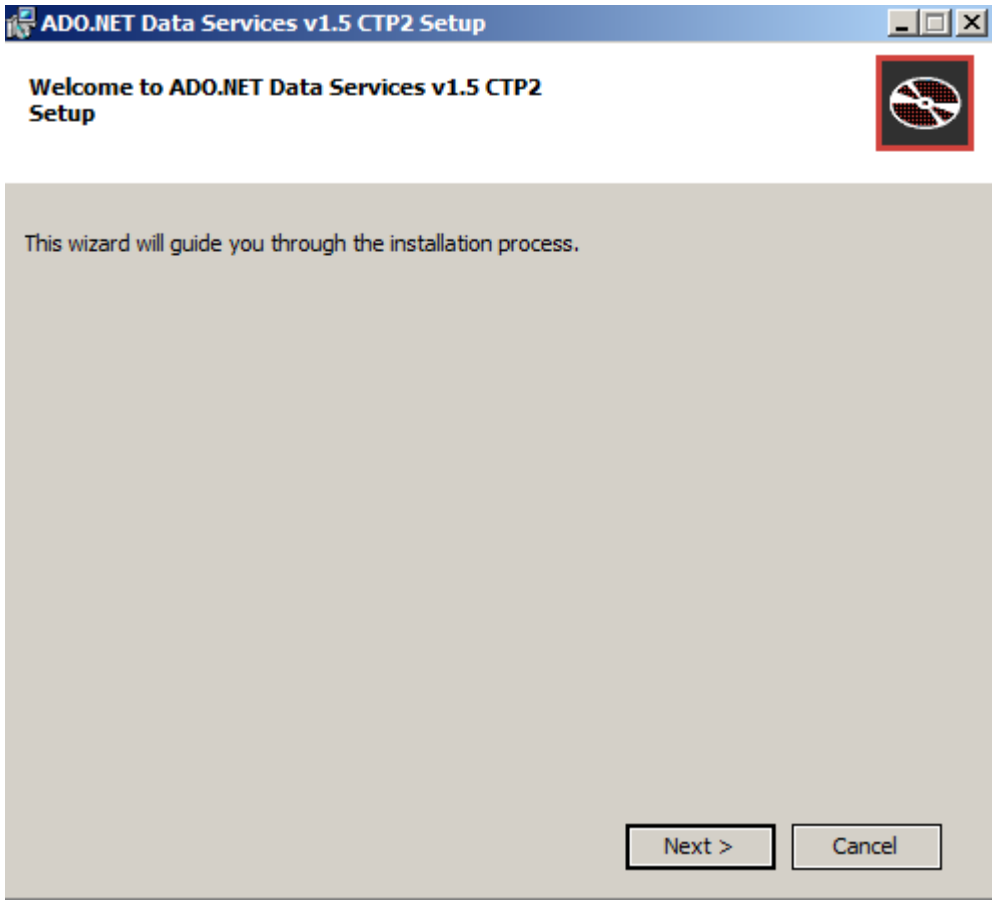

ADO.NET Data Services v1.5 CTP2 Setup
Welcome to ADO.NET Data Services v1.5 CTP2 Setup
This wizard will guide you through the installation process.
Next >
Cancel

Figure 66: *ADO.NET*

128. Click **Next**.
129. Accept license terms and click **Install**.
130. Click **Finish**.

Download and Install Silverlight 3.0

131. Download Silverlight from the following link:

    http://go.microsoft.com/fwlink/?LinkId=166506

132. Run downloaded package.

Install Silverlight 3
Microsoft
Silverlight
By clicking Install now you accept the Silverlight license agreement. Silverlight updates automatically; learn more.
Install now

Figure 67: *Silverlight*

133. Click **Install now**.
134. Click **Next** and then **Close**.

Install Application Server and Web Server (IIS) roles

135. Open server manager (Start > Administrative Tools > Server Manager).
136. Expand **Roles** node.
137. Click **Add Roles**.
138. Click **Next**.
139. Check **Application Server** checkbox.

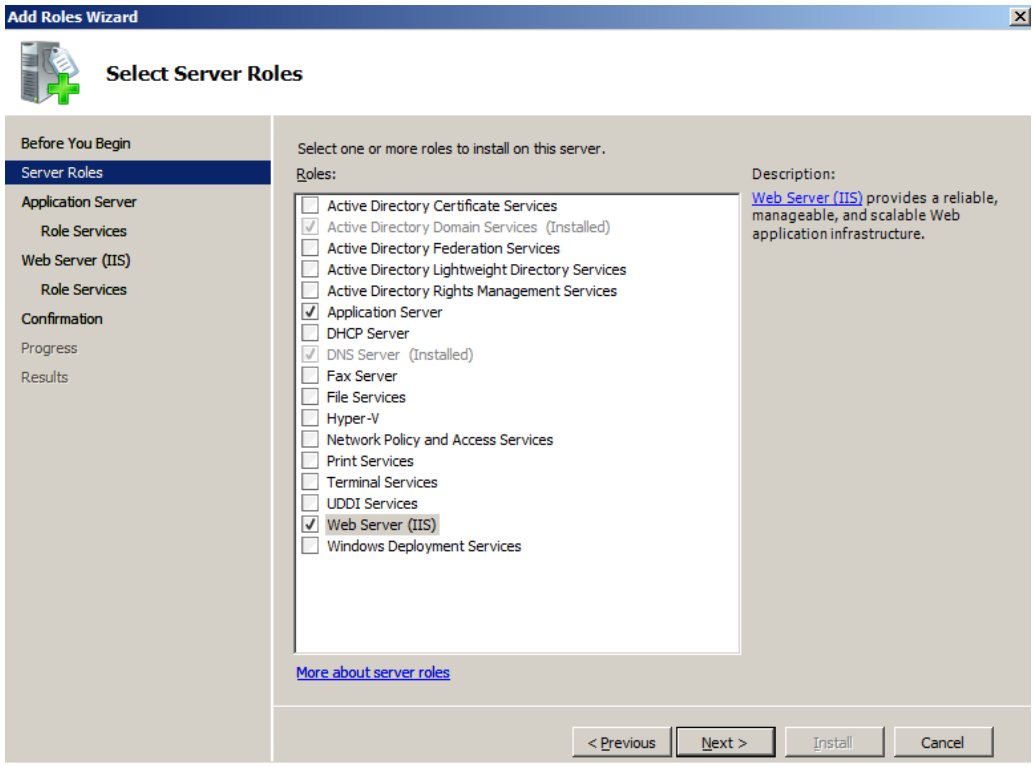


Figure 68: *Select Server Roles*

140. Click **Add Required Features** button.
141. Check **Web Server (IIS)** checkbox.
142. Click **Next**.
143. Click **Next**.
144. Check **Web Server (IIS) Support** checkbox.

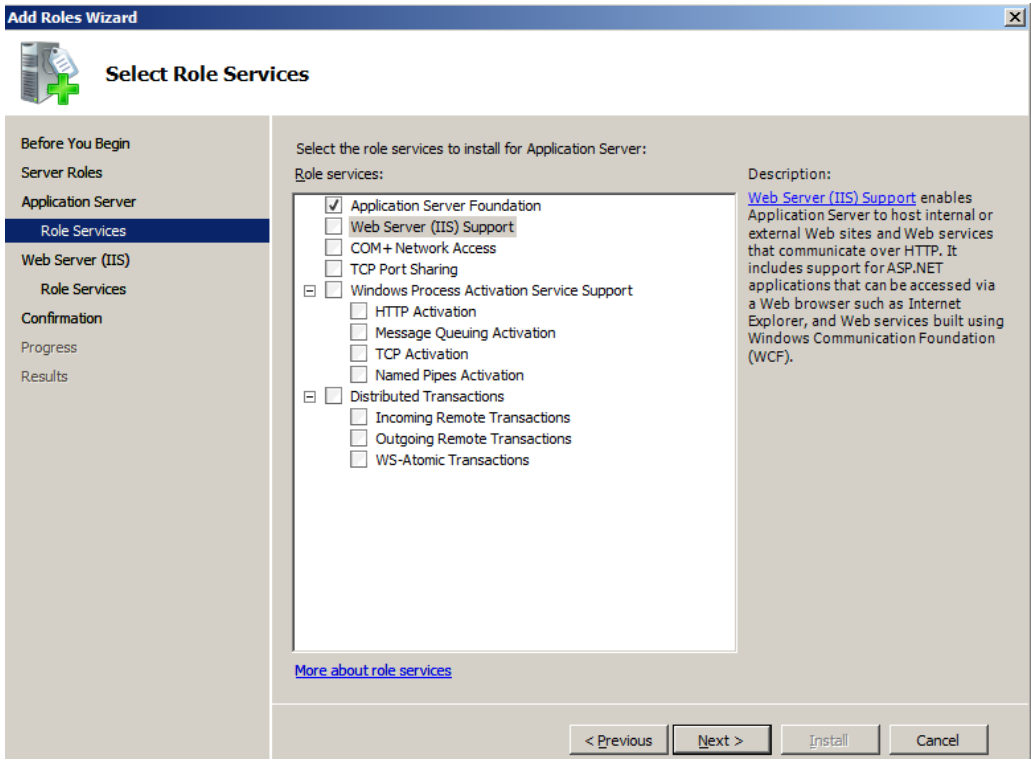

Add Roles Wizard
Select Role Services
Before You Begin
Server Roles
Application Server
Role Services
Web Server (IIS)
Role Services
Confirmation
Progress
Results
Select the role services to install for Application Server:
Role services:
Application Server Foundation
Web Server (IIS) Support
COM+ Network Access
TCP Port Sharing
Windows Process Activation Service Support
HTTP Activation
Message Queuing Activation
TCP Activation
Named Pipes Activation
Distributed Transactions
Incoming Remote Transactions
Outgoing Remote Transactions
WS-Atomic Transactions
Description:
Web Server (IIS) Support enables Application Server to host internal or external Web sites and Web services that communicate over HTTP. It includes support for ASP.NET applications that can be accessed via a Web browser such as Internet Explorer, and Web services built using Windows Communication Foundation (WCF).
More about role services
< Previous
Next >
Install
Cancel

Figure 69: *Select role services*

145. **Add Roles Wizard** will pop-up. Click **Add Required Roles Services** button.

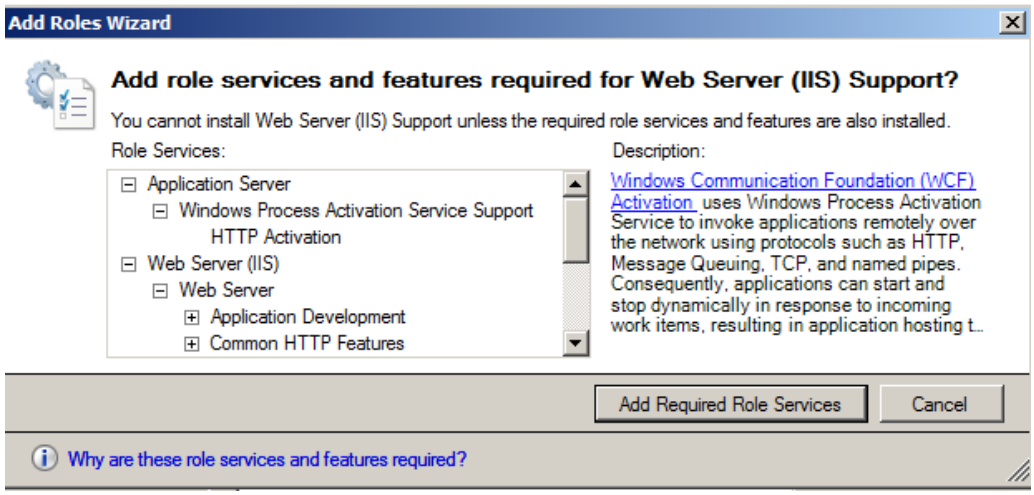

Add Roles Wizard
Add role services and features required for Web Server (IIS) Support?
You cannot install Web Server (IIS) Support unless the required role services and features are also installed.
Role Services:
Application Server
Windows Process Activation Service Support
HTTP Activation
Web Server (IIS)
Web Server
Application Development
Common HTTP Features
Description:
Windows Communication Foundation (WCF) Activation uses Windows Process Activation Service to invoke applications remotely over the network using protocols such as HTTP, Message Queuing, TCP, and named pipes. Consequently, applications can start and stop dynamically in response to incoming work items, resulting in application hosting t...
Add Required Role Services
Cancel
Why are these role services and features required?

Figure 70: *Add roles wizard*

146. Click **Next**.
147. Click **Next**.
148. Click **Next**.
149. Click **Install**.

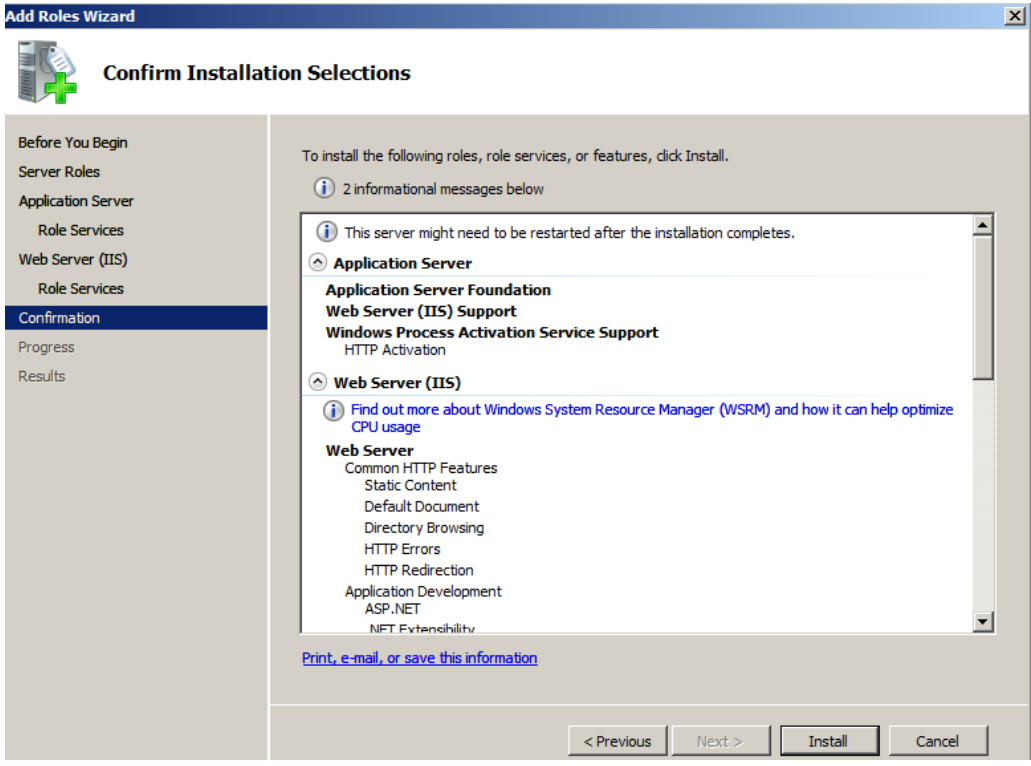


Figure 71: *Installation selections*

Installation will take some time so be patient.

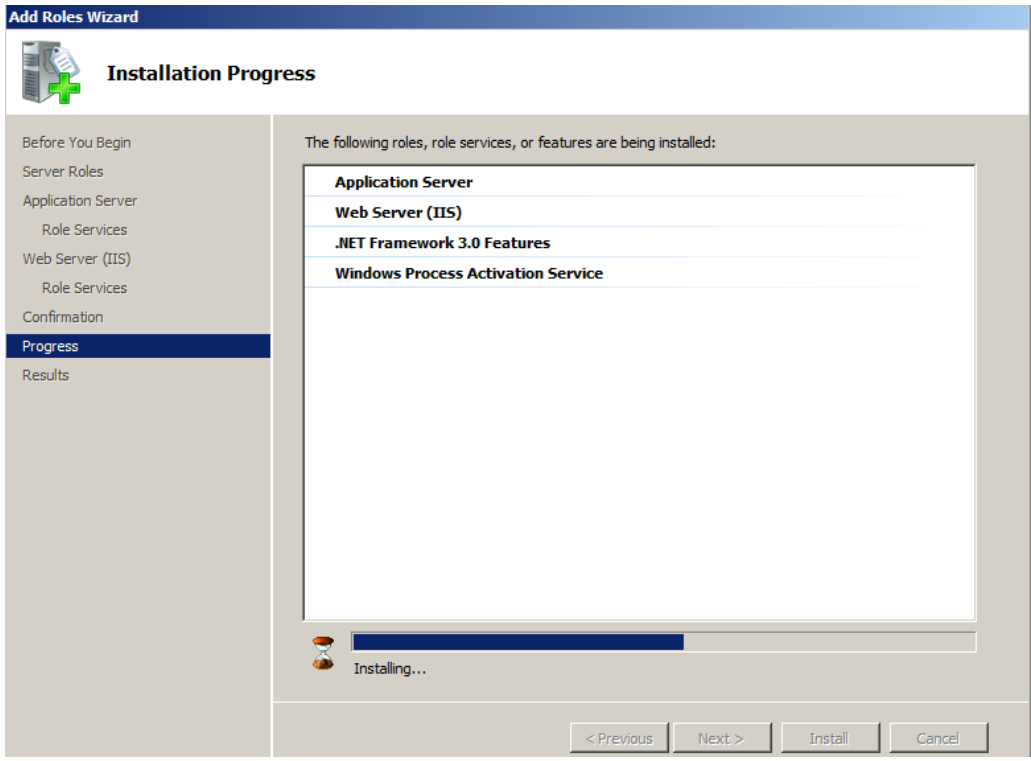


Figure 72: *Installation progress*

150. Click **Close** button.

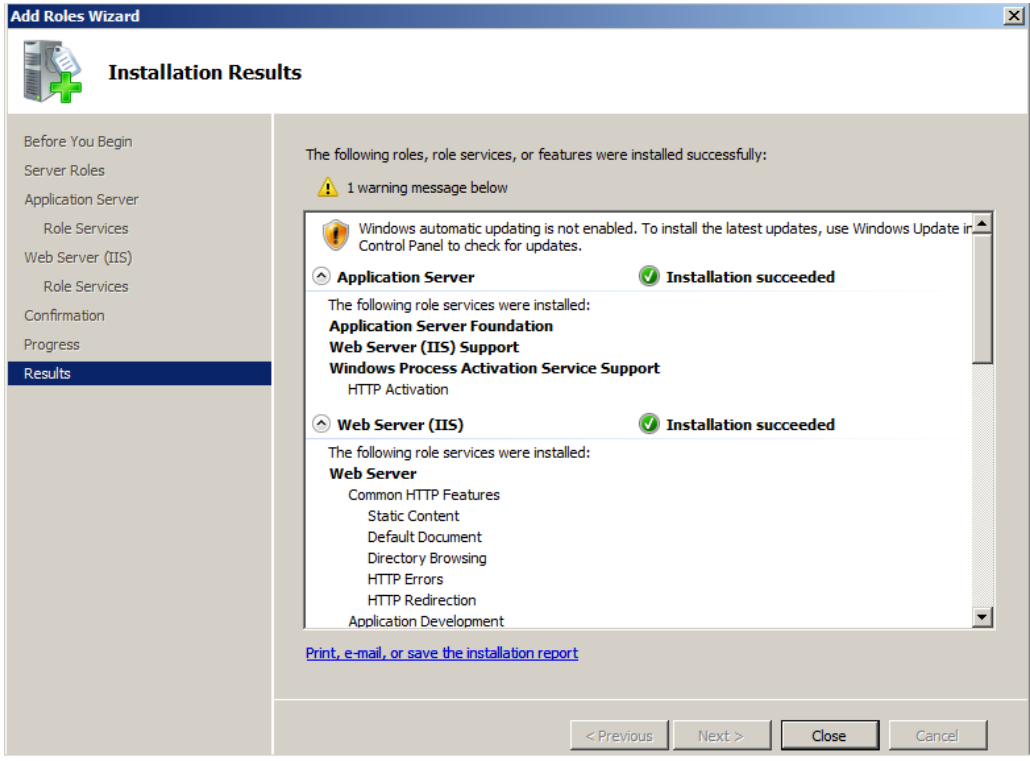


Figure 73: *Installation results*

Download and Install SharePoint 2010

151. Download SharePoint 2010 Beta from the following link:

    http://sharepoint2010.microsoft.com/try-it/Pages/Trial.aspx

152. Run **OfficeServer.exe** to start the installation.
153. Click **Install software prerequisites**

Figure 74: *Install software prerequisites*

154. It will show you a list of prerequisites that need to be installed. If you notice, we have already installed all prerequisites. SQL Server 2008 Native Client was not required in our case because we had installed software that already contained higher version of native client.

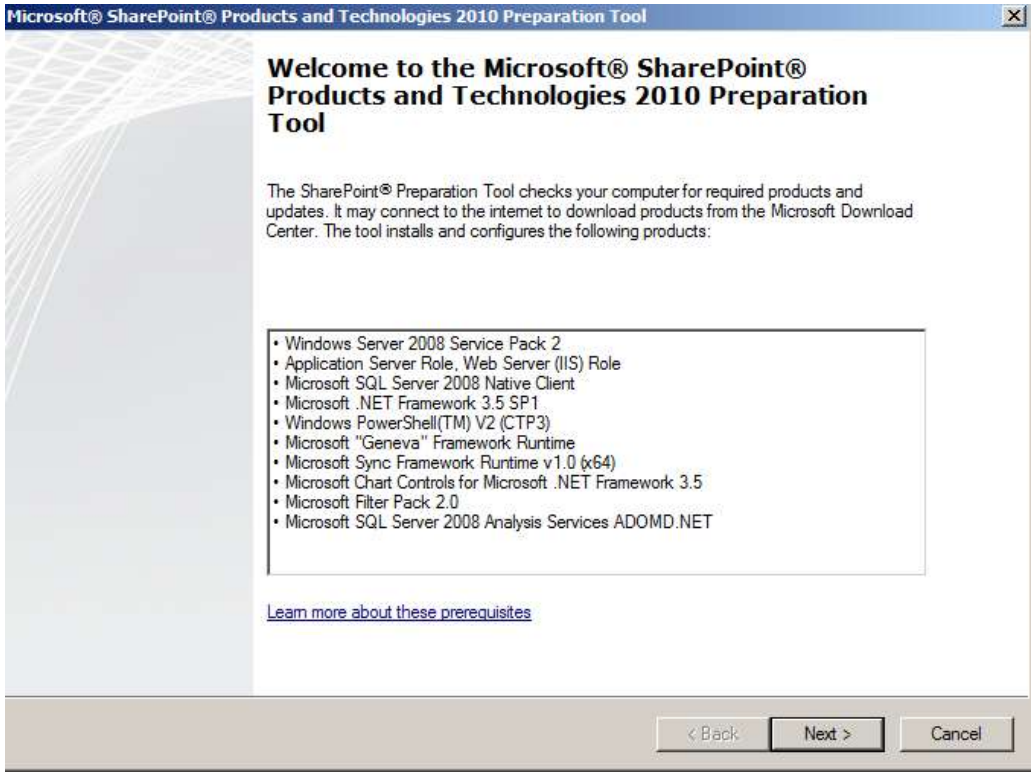

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Welcome to the Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
The SharePoint® Preparation Tool checks your computer for required products and updates. It may connect to the internet to download products from the Microsoft Download Center. The tool installs and configures the following products:
• Windows Server 2008 Service Pack 2
• Application Server Role, Web Server (IIS) Role
• Microsoft SQL Server 2008 Native Client
• Microsoft .NET Framework 3.5 SP1
• Windows PowerShell(TM) V2 (CTP3)
• Microsoft "Geneva" Framework Runtime
• Microsoft Sync Framework Runtime v1.0 (x64)
• Microsoft Chart Controls for Microsoft .NET Framework 3.5
• Microsoft Filter Pack 2.0
• Microsoft SQL Server 2008 Analysis Services ADOMD.NET
Learn more about these prerequisites
< Back
Next >
Cancel

Figure 75: *List of prerequisites*

155. Click **Next**.
156. Accept license terms and click **Next**.

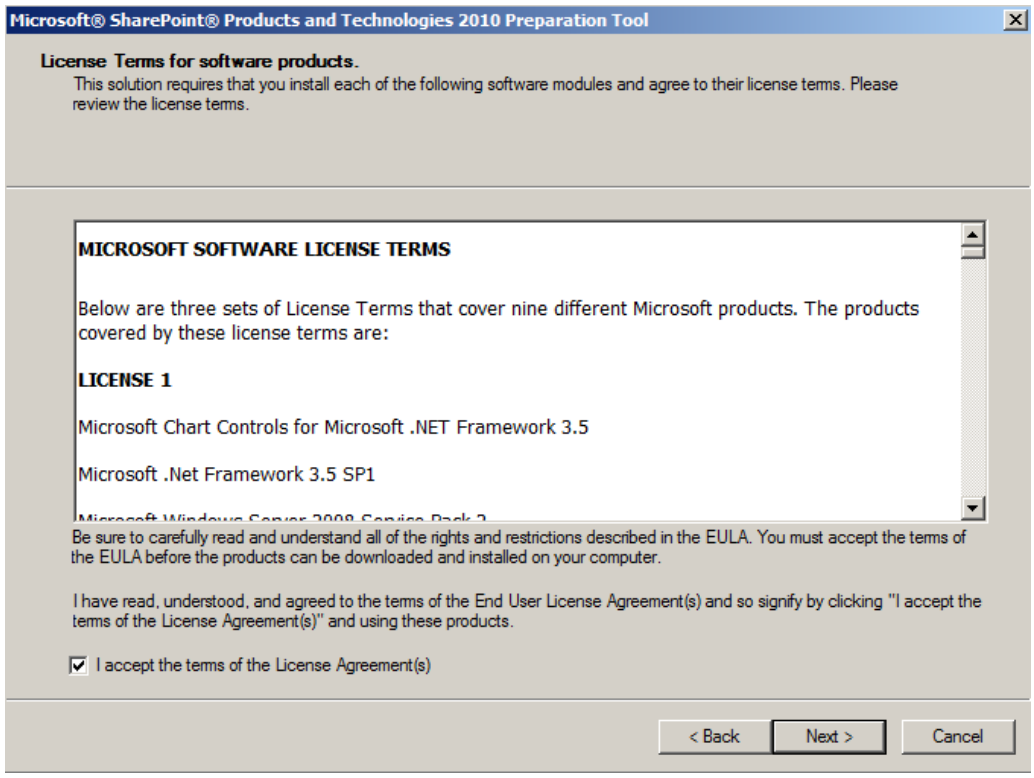

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
License Terms for software products.
This solution requires that you install each of the following software modules and agree to their license terms. Please review the license terms.
MICROSOFT SOFTWARE LICENSE TERMS
Below are three sets of License Terms that cover nine different Microsoft products. The products covered by these license terms are:
LICENSE 1
Microsoft Chart Controls for Microsoft .NET Framework 3.5
Microsoft .Net Framework 3.5 SP1
Be sure to carefully read and understand all of the rights and restrictions described in the EULA. You must accept the terms of the EULA before the products can be downloaded and installed on your computer.
I have read, understood, and agreed to the terms of the End User License Agreement(s) and so signify by clicking "I accept the terms of the License Agreement(s)" and using these products.
I accept the terms of the License Agreement(s)
< Back
Next >
Cancel

Figure 76: *Accept license terms*

157. Installer will download Windows Server 2008 Service Pack 2 (745.24 MB). This is one of the main requirements. Windows Server 2008 Service Pack 2 can be downloaded directly from the MSDN site. I, in fact, first tried that version but due to unknown reasons it didn't work. It was a checked build. It didn't accept the Windows activation key. I installed Windows without the key thinking I would provide the key later after the installation but even after the Windows had been installed it rejected the key (that I got from the MSDN subscribers download), therefore, I had to take this route of installing Windows Server 2008 (without service pack 2). Service Pack 2 will take some time to install so relax. Go check out your favorite blog and come back in 60 – 90 minutes.

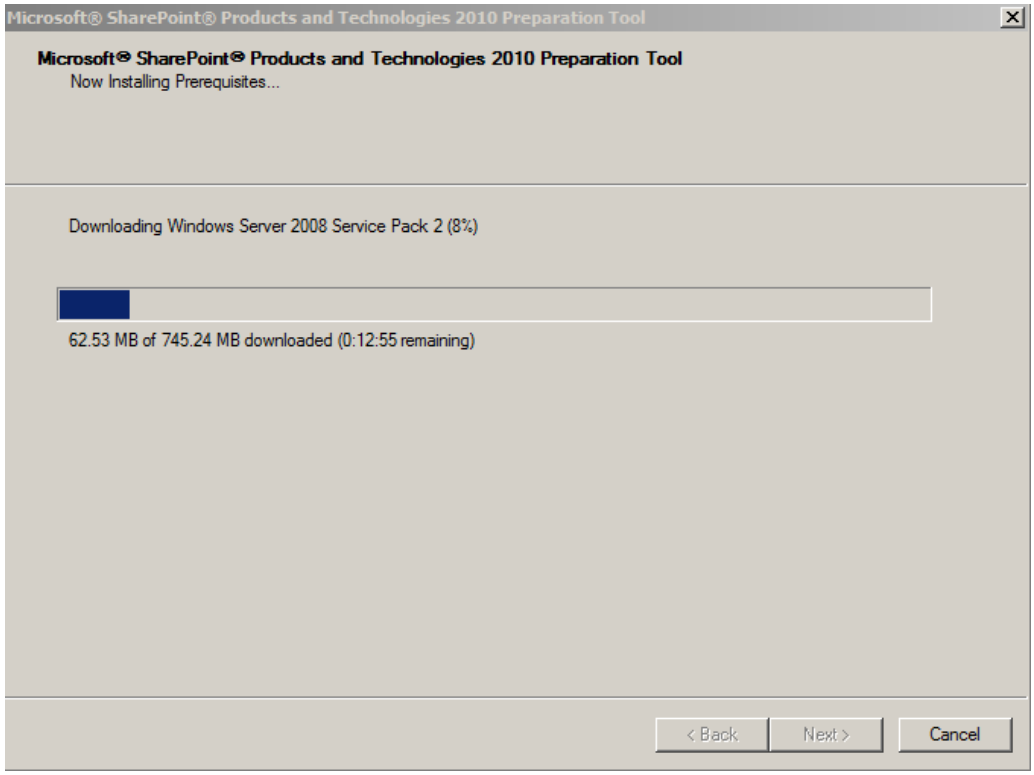

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Now Installing Prerequisites...
Downloading Windows Server 2008 Service Pack 2 (8%)
62.53 MB of 745.24 MB downloaded (0:12:55 remaining)
< Back
Next >
Cancel

Figure 77: *Preparation tool*

158. After the installation has completed, the screen will show you list of prerequisites that were installed and those that were skipped.

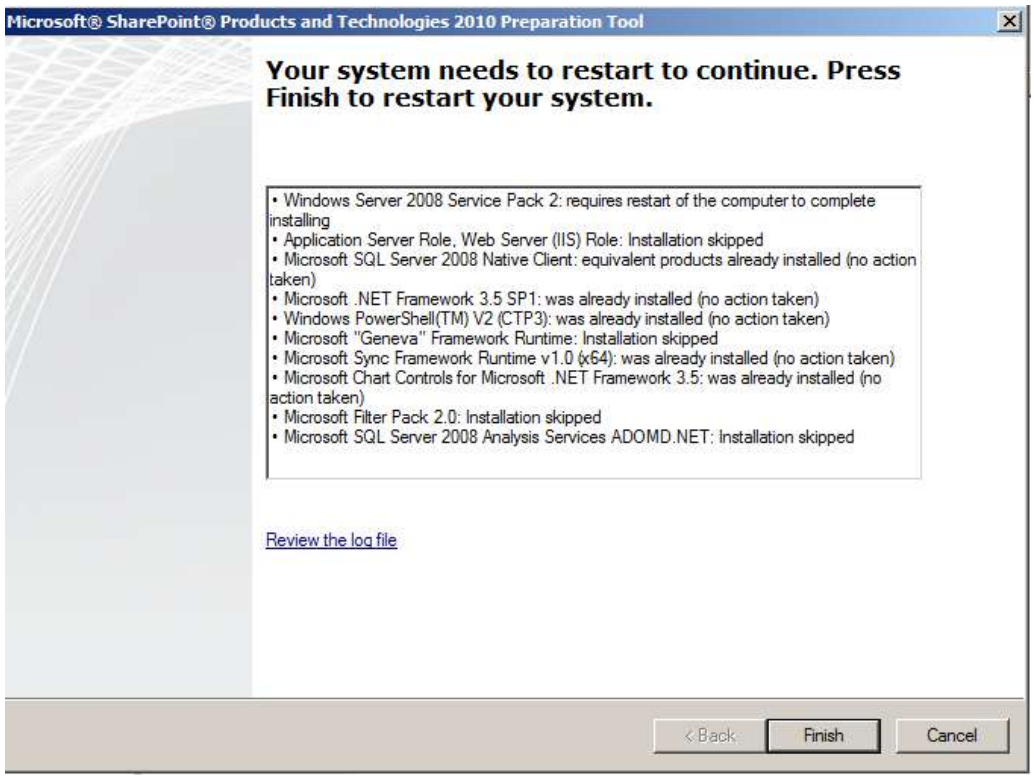

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Your system needs to restart to continue. Press Finish to restart your system.
• Windows Server 2008 Service Pack 2: requires restart of the computer to complete installing
• Application Server Role, Web Server (IIS) Role: Installation skipped
• Microsoft SQL Server 2008 Native Client: equivalent products already installed (no action taken)
• Microsoft .NET Framework 3.5 SP1: was already installed (no action taken)
• Windows PowerShell(TM) V2 (CTP3): was already installed (no action taken)
• Microsoft "Geneva" Framework Runtime: Installation skipped
• Microsoft Sync Framework Runtime v1.0 (x64): was already installed (no action taken)
• Microsoft Chart Controls for Microsoft .NET Framework 3.5: was already installed (no action taken)
• Microsoft Filter Pack 2.0: Installation skipped
• Microsoft SQL Server 2008 Analysis Services ADOMD.NET: Installation skipped
Review the log file
< Back
Finish
Cancel

Figure 78: *Installation status*

If you look at the above screen, you will notice that only Windows Server 2008 Service Pack 2 was installed because that was missing. All other prerequisites were already installed and hence, were skipped.

Click **Finish**. This will restart your system. I would suggest that you take back up of your Virtual Machine before proceeding to install SharePoint itself. You can then use this saved Virtual Machine in future to install SharePoint with a different configuration.

159. After your system has restarted, you see the following screen:

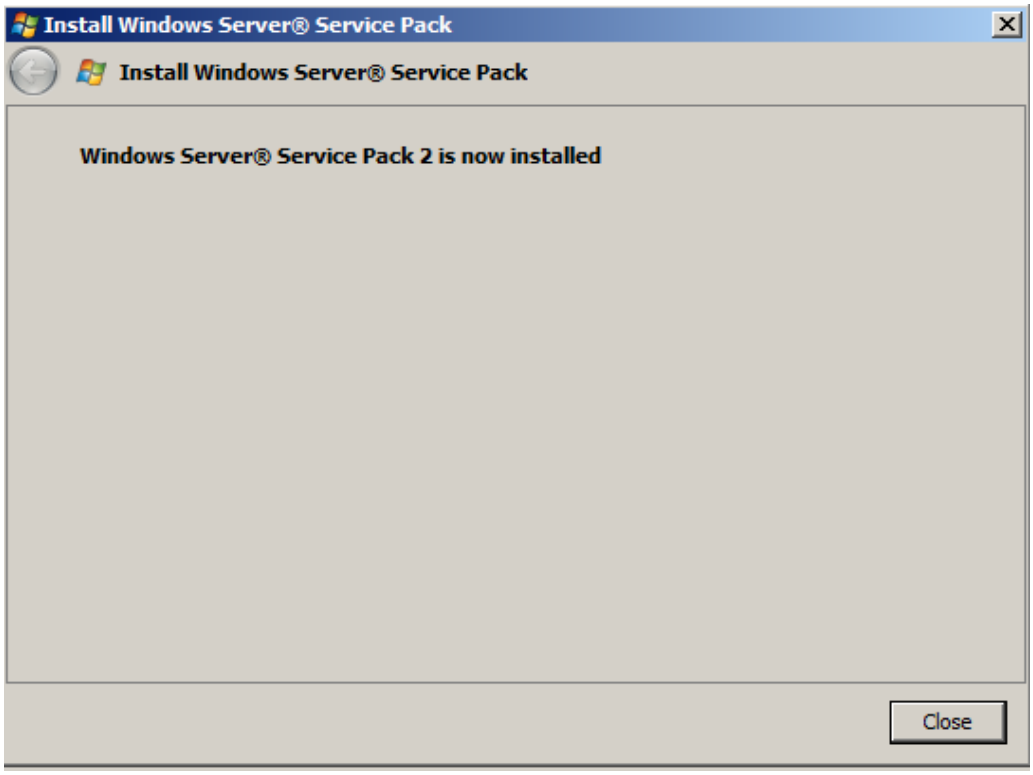

Install Windows Server® Service Pack
Install Windows Server® Service Pack
Windows Server® Service Pack 2 is now installed
Close

Figure 79: *Install Windows Server Service Pack*

Click **Close**.

If for any reason, installation or configuration of a prerequisite fails you can see the detailed error description in the log file generated during the install. On the final screen after the installation of prerequisites (the one with the "Finish" button), you will see a link **Review the log file**. Click this link to open the log file and see the error. That will help you resolve the issue.

160. SharePoint will now install/configure any remaining prerequisites.

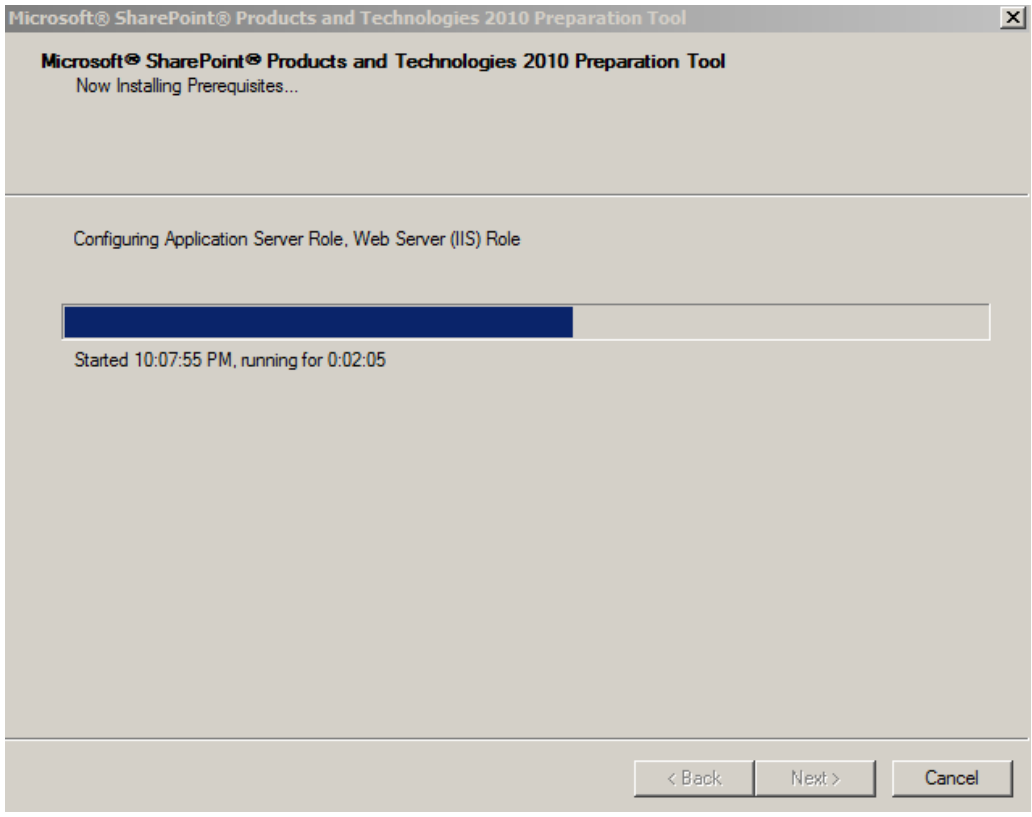

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Now Installing Prerequisites...
Configuring Application Server Role, Web Server (IIS) Role
Started 10:07:55 PM, running for 0:02:05
< Back
Next >
Cancel

Figure 80: *Installation in progress*

If an installation or configuration of a prerequisite fails during SharePoint installation, keep the final summary screen open and fix the issue and then come back and click the "Finish" button. For example, SharePoint fails to uninstall software or fails to install a new version of the software, in that case, leave the summary screen open, go and manually uninstall the incorrect version and install the new one and then come back and click the "Finish" button. Your installation will not break.

161. Click **Finish**.

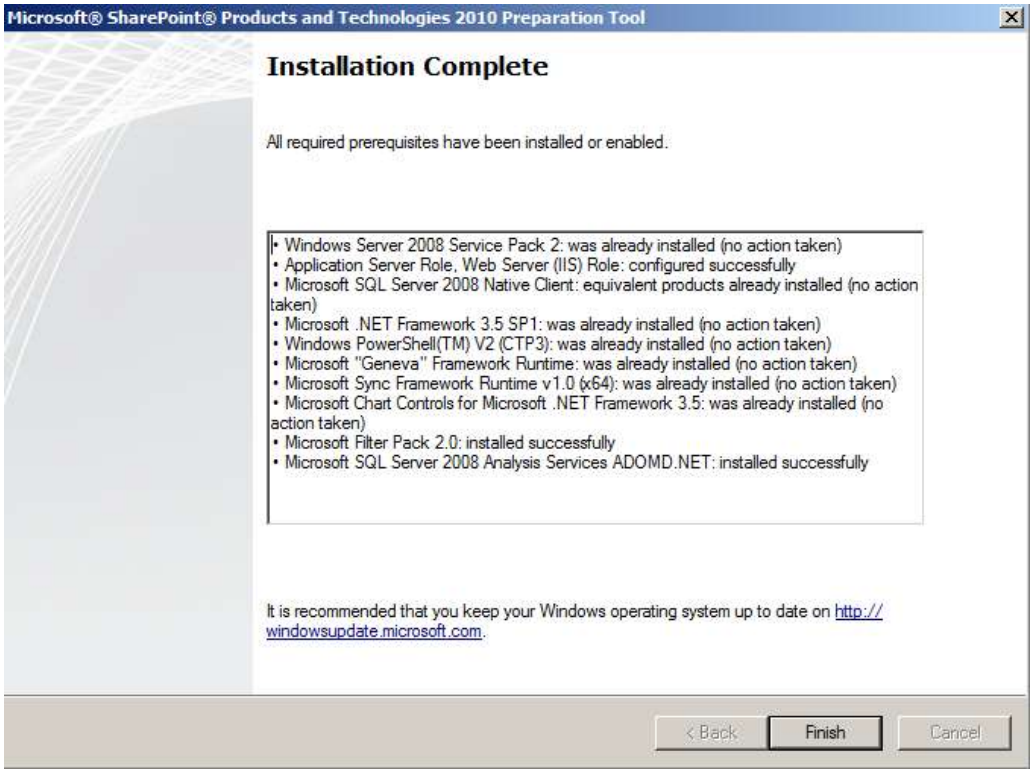

Microsoft® SharePoint® Products and Technologies 2010 Preparation Tool
Installation Complete
All required prerequisites have been installed or enabled.
• Windows Server 2008 Service Pack 2: was already installed (no action taken)
• Application Server Role, Web Server (IIS) Role: configured successfully
• Microsoft SQL Server 2008 Native Client: equivalent products already installed (no action taken)
• Microsoft .NET Framework 3.5 SP1: was already installed (no action taken)
• Windows PowerShell(TM) V2 (CTP3): was already installed (no action taken)
• Microsoft "Geneva" Framework Runtime: was already installed (no action taken)
• Microsoft Sync Framework Runtime v1.0 (x64): was already installed (no action taken)
• Microsoft Chart Controls for Microsoft .NET Framework 3.5: was already installed (no action taken)
• Microsoft Filter Pack 2.0: installed successfully
• Microsoft SQL Server 2008 Analysis Services ADOMD.NET: installed successfully
It is recommended that you keep your Windows operating system up to date on http://windowsupdate.microsoft.com.
< Back
Finish
Cancel

Figure 81: *Installation summary*

Remember you will see **Installation Complete** message if the prerequisites were installed successfully. If there was an error and you fixed some issue manually, clicking **Finish** will close the wizard. In this case, you will have to run the SharePoint installation package again. This time instead of clicking **Install software prerequisites** link, click **Install SharePoint Server** or if you want to be double sure that the prerequisites were install successfully, you can opt to click **Install software prerequisites** but bear in mind, it will take time to check the prerequisites. If you try to install SharePoint when the prerequisites have not been installed properly, you get the following error:

Setup Errors
Setup is unable to proceed due to the following error(s):
This product requires Hotfix for Microsoft Windows (KB971831) or above.
For the list of pre-requisites needed to install the product please refer to:
http://go.microsoft.com/fwlink/?LinkId=106209
Correct the issue(s) listed above and re-run setup.
You can install all required prerequisites for this product by selecting the 'Install software prerequisites' option in the splash screen. See Help for more information.
Close

Figure 82: *Setup errors*

162. Download following KB (KB971831) and install it before proceeding otherwise SharePoint installer will fail:

http://connect.microsoft.com/VisualStudio/Downloads/DownloadDetails.aspx?DownloadID=21953

Download **Windows6.0-KB971831-x64.msu** from the above page.

163. Run SharePoint setup package again and click **Install SharePoint Server**. You will see following screen when the wizard starts:

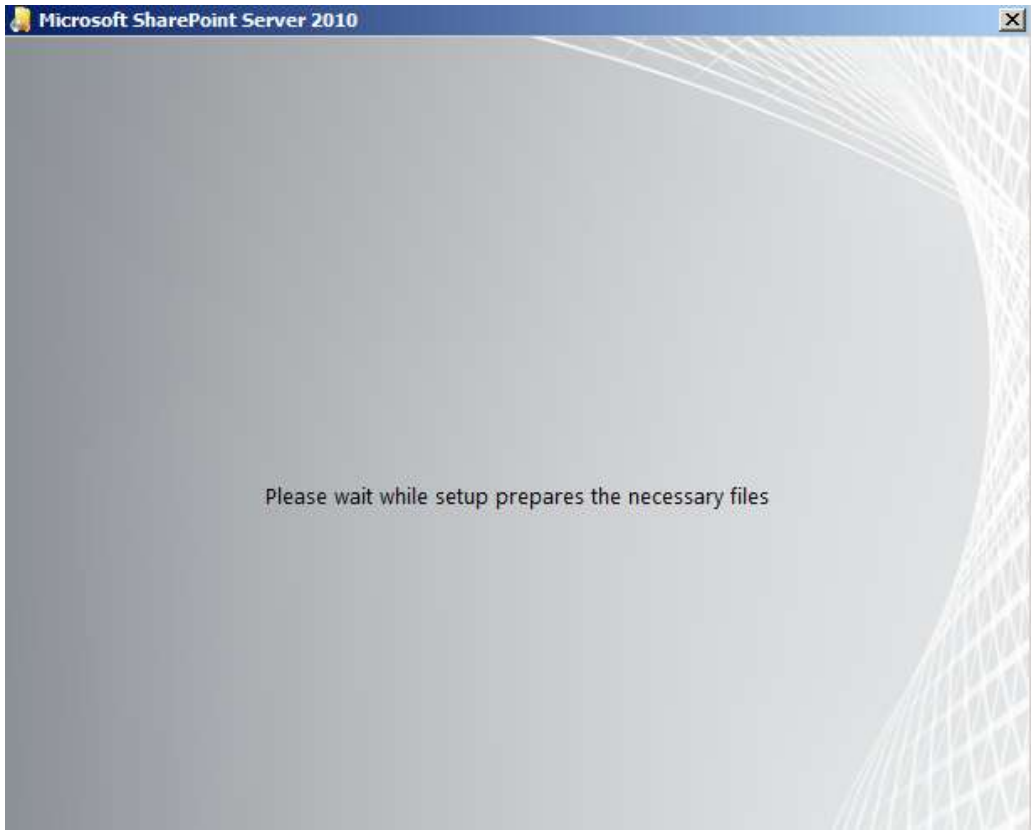


Figure 83: *Setup prepares the necessary files for installation*

If wizard failed to install or configure a prerequisite, running the setup package again will not resolve the issue and you will get the same error message again and again. See Figure 84 above to see a sample error message. The exact error message will be different depending on which prerequisite was missed. In this case, install the prerequisite manually and then run the setup again.

164. You will be prompted to enter product key. Use one of the following keys:

PKXTJ-DCM9D-6MM3V-G86P8-MJ8CY
BV7VC-RMR6B-26P6Y-BTQDG-DX2KQ

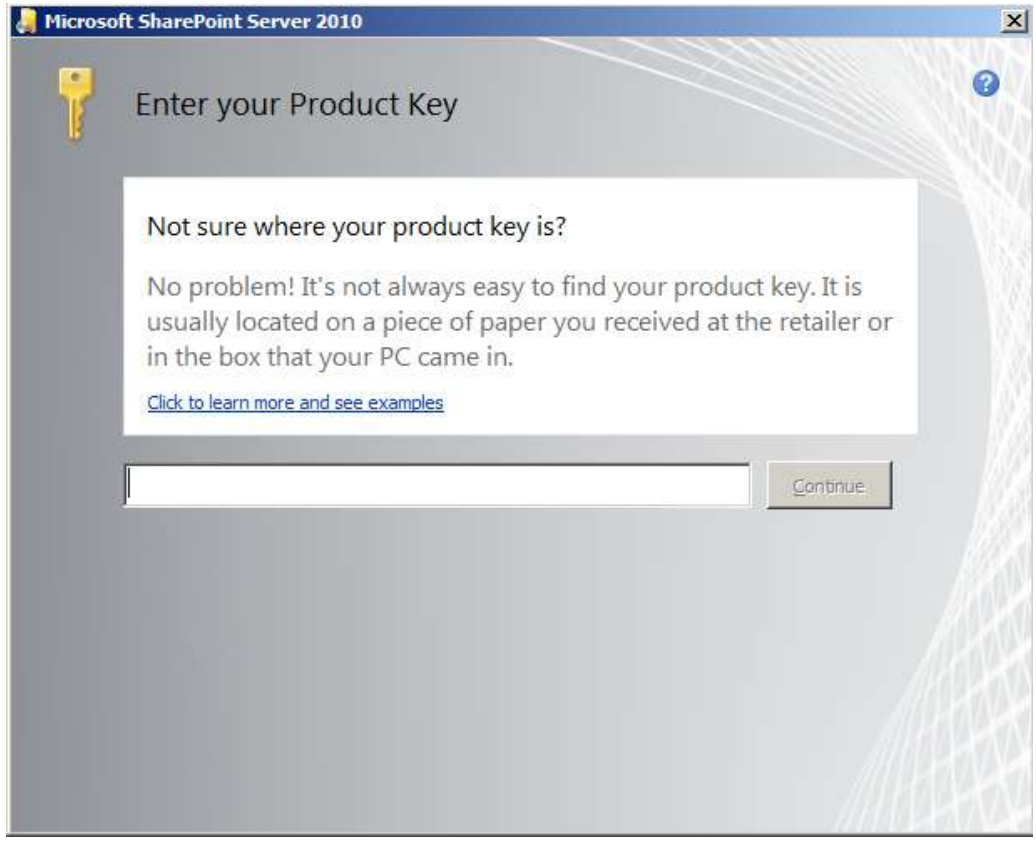

Microsoft SharePoint Server 2010
Enter your Product Key
Not sure where your product key is?
No problem! It's not always easy to find your product key. It is usually located on a piece of paper you received at the retailer or in the box that your PC came in.
Click to learn more and see examples
Continue

Figure 84: *Enter product key*

Enter key and click **Continue**.

165. Accept license terms and click **Continue.**

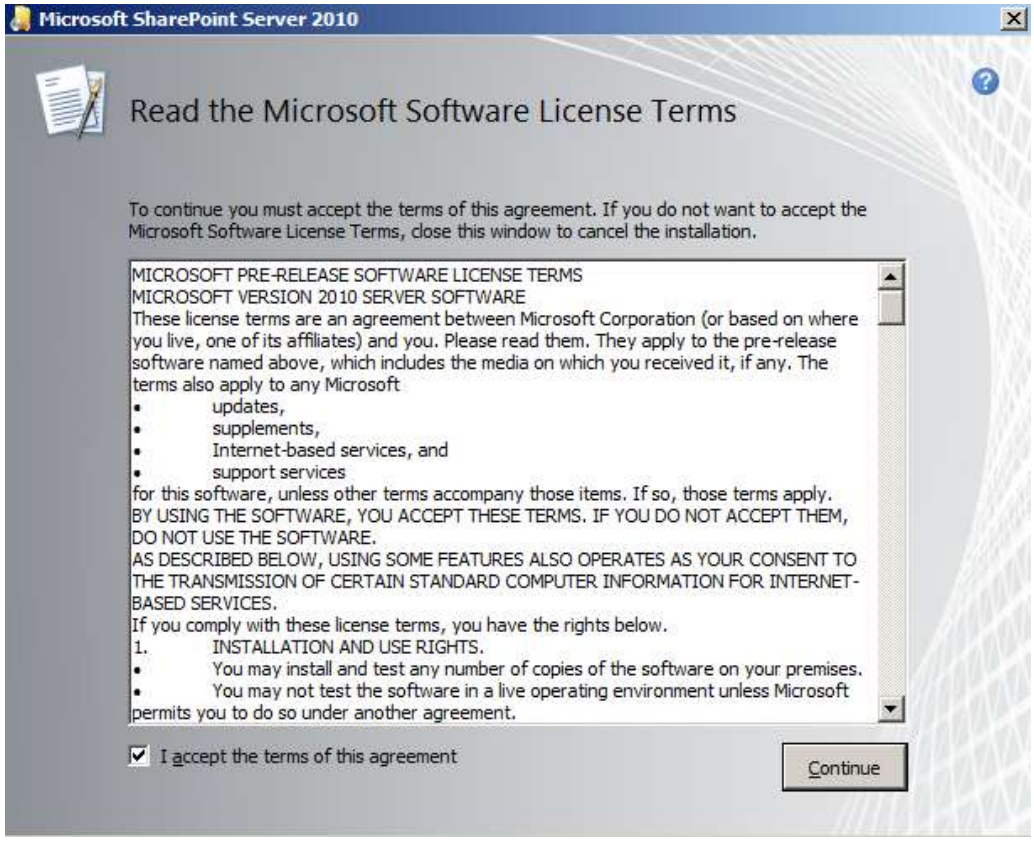

Microsoft SharePoint Server 2010
Read the Microsoft Software License Terms
To continue you must accept the terms of this agreement. If you do not want to accept the Microsoft Software License Terms, close this window to cancel the installation.
MICROSOFT PRE-RELEASE SOFTWARE LICENSE TERMS
MICROSOFT VERSION 2010 SERVER SOFTWARE
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the pre-release software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
• updates,
• supplements,
• Internet-based services, and
• support services
for this software, unless other terms accompany those items. If so, those terms apply.
BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE.
AS DESCRIBED BELOW, USING SOME FEATURES ALSO OPERATES AS YOUR CONSENT TO THE TRANSMISSION OF CERTAIN STANDARD COMPUTER INFORMATION FOR INTERNET-BASED SERVICES.
If you comply with these license terms, you have the rights below.
1. INSTALLATION AND USE RIGHTS.
• You may install and test any number of copies of the software on your premises.
• You may not test the software in a live operating environment unless Microsoft permits you to do so under another agreement.
I accept the terms of this agreement
Continue

Figure 85: *Accept license terms*

166. Click **Server Farm**.

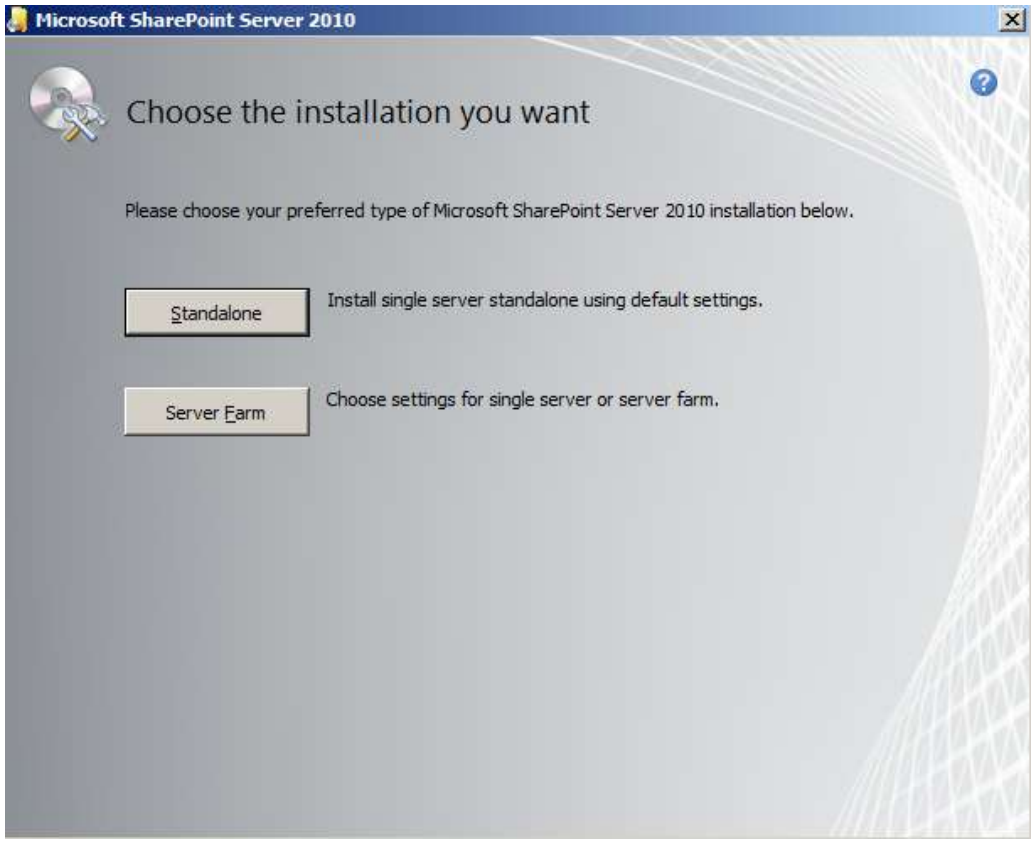

Microsoft SharePoint Server 2010
Choose the installation you want
Please choose your preferred type of Microsoft SharePoint Server 2010 installation below.
Standalone
Install single server standalone using default settings.
Server Farm
Choose settings for single server or server farm.

Figure 86: *Single server farm installation*

Beginners usually get confused with the terminology. The one question that is asked quite often is "what is the difference between a standalone server and a single server farm?".

What is a standalone server?

You can install SharePoint on a single machine that will act as a server. Installing SharePoint on a single machine is easy and is useful if you want to evaluate the features and capabilities of SharePoint. You can also use this configuration if you want to create a development environment. This configuration is also useful if you want to deploy small number of sites and you want to minimize administrative overhead.

What is a single server farm?

SharePoint can be deployed in a server farm environment. This is useful if you are deploying a large number of sites. This gives you best performance and is scalable. A server farm consists of one or more servers dedicated to running SharePoint. A server farm can consist of one or more servers. A small server farm consists of a database server and a server running web server and SharePoint. In this configuration, the front-end servers are configured as web servers and application servers. A medium server farm typically consists of a database server, an application server, and one or two front-end web servers. A large server farm consists of two or more clustered database servers, several load-balanced front-end web servers and two or more application servers. A single server farm is a configuration where you can install all servers on a single machine. This is useful if you want to evaluate SharePoint's features and capabilities.

167. Select **Complete** option and click **Install Now**.

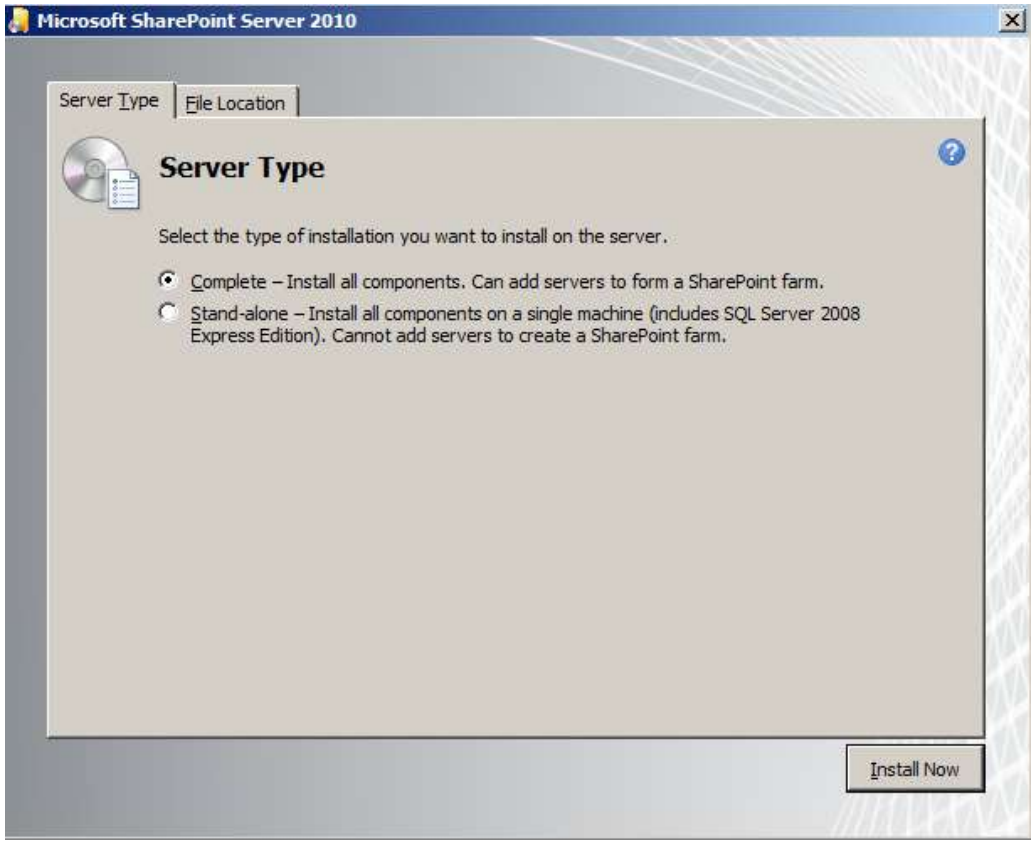

Microsoft SharePoint Server 2010
Server Type
File Location
Server Type
Select the type of installation you want to install on the server.
Complete – Install all components. Can add servers to form a SharePoint farm.
Stand-alone – Install all components on a single machine (includes SQL Server 2008 Express Edition). Cannot add servers to create a SharePoint farm.
Install Now

Figure 87: *Server Type*

Installation will start. Screen will look as following:

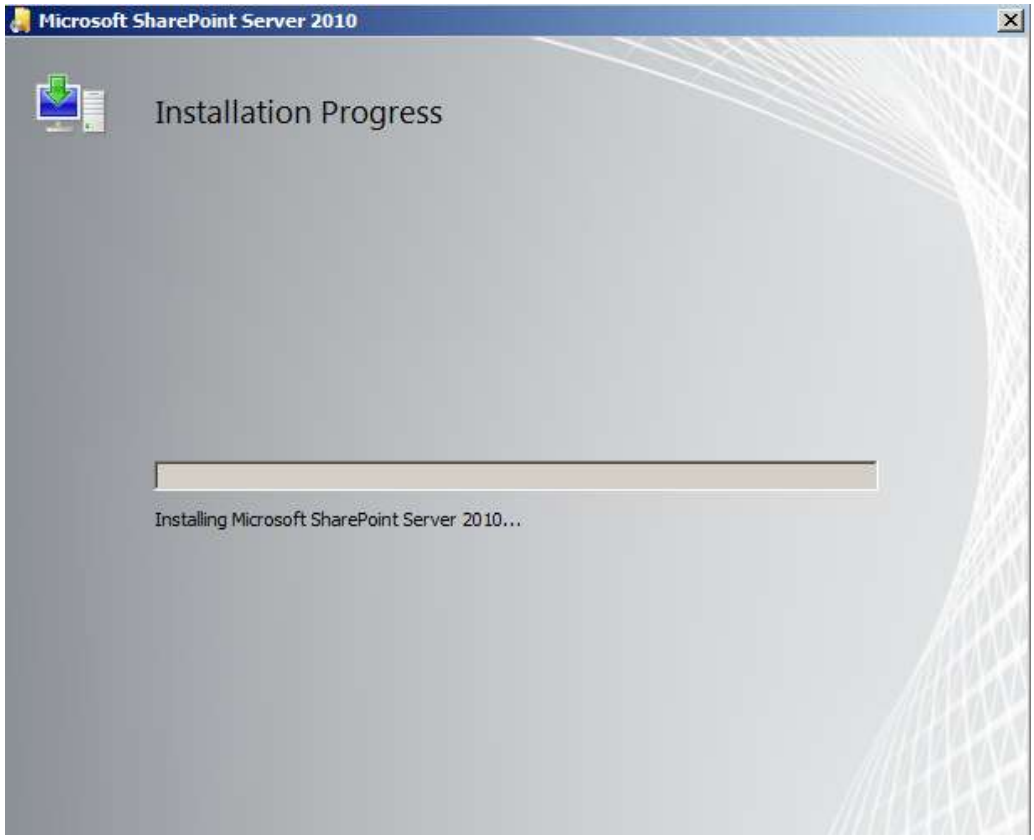


Figure 88: *Installation in progress*

168. Run configuration wizard. Wizard will start when you click **Close**.

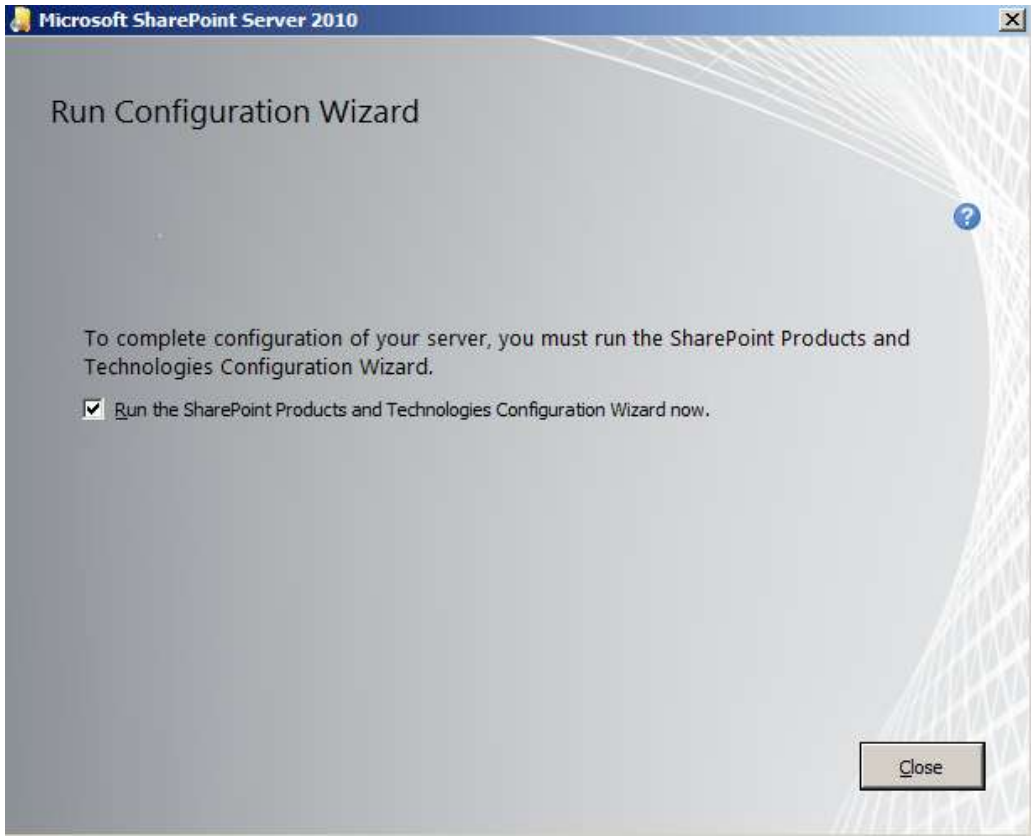

Microsoft SharePoint Server 2010
Run Configuration Wizard
To complete configuration of your server, you must run the SharePoint Products and Technologies Configuration Wizard.
Run the SharePoint Products and Technologies Configuration Wizard now.
Close

Figure 89: *Run configuration wizard*

If you want to run configuration wizard later, uncheck the checkbox and click **Close**.

169. Click **Next**.

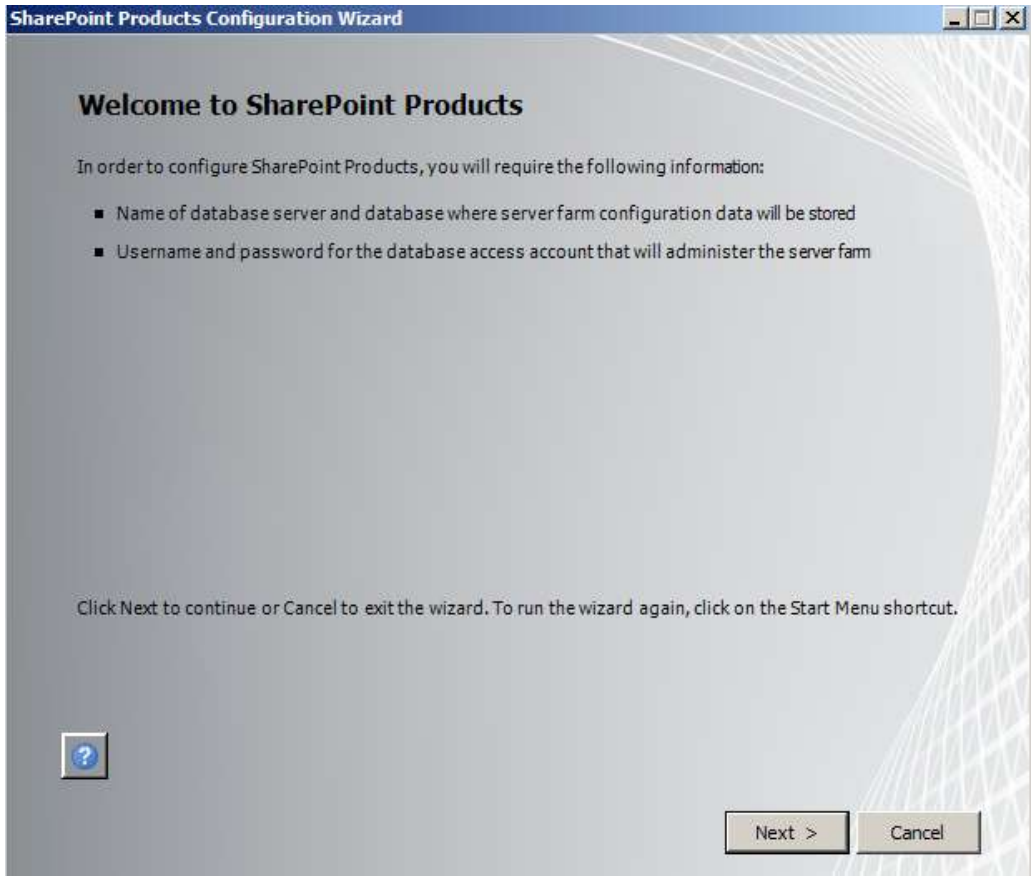

SharePoint Products Configuration Wizard
Welcome to SharePoint Products
In order to configure SharePoint Products, you will require the following information:
Name of database server and database where server farm configuration data will be stored
Username and password for the database access account that will administer the server farm
Click Next to continue or Cancel to exit the wizard. To run the wizard again, click on the Start Menu shortcut.
Next >
Cancel

Figure 90: *Configuration wizard*

170. You will see following message, click **Yes**.

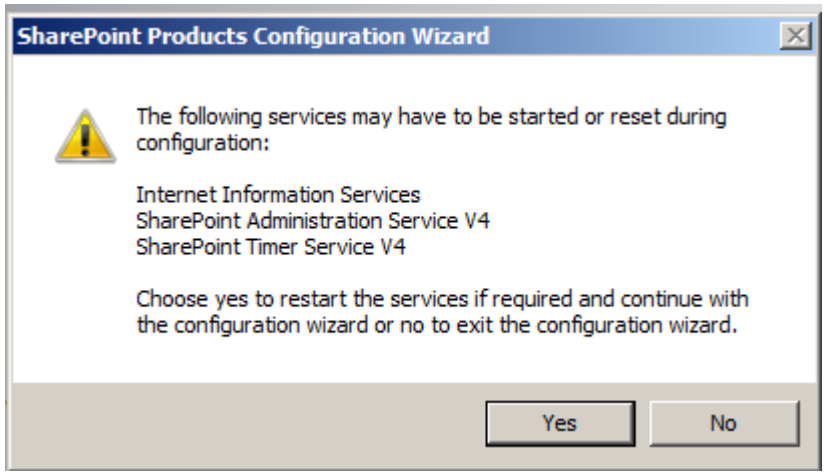

SharePoint Products Configuration Wizard
The following services may have to be started or reset during configuration:
Internet Information Services
SharePoint Administration Service V4
SharePoint Timer Service V4
Choose yes to restart the services if required and continue with the configuration wizard or no to exit the configuration wizard.
Yes
No

Figure 91: *Alert message*

171. Select second option **Create a new server farm** and click **Next**.

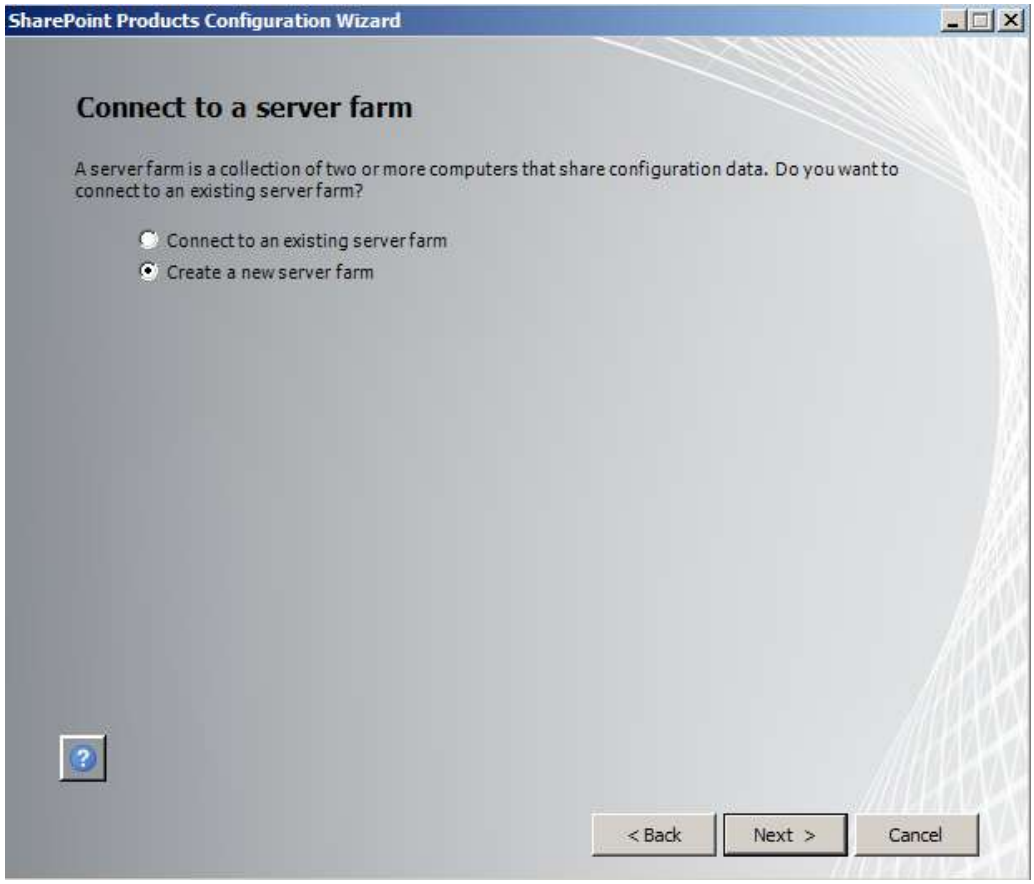

SharePoint Products Configuration Wizard
Connect to a server farm
A server farm is a collection of two or more computers that share configuration data. Do you want to connect to an existing server farm?
Connect to an existing server farm
Create a new server farm
< Back
Next >
Cancel

Figure 92: *Create new server farm*

172. Enter a database name of your choice, I used "sp2010". Database will be created. Below enter username for the SQL account that we created earlier specifically for this step. Enter password and click **Next**.

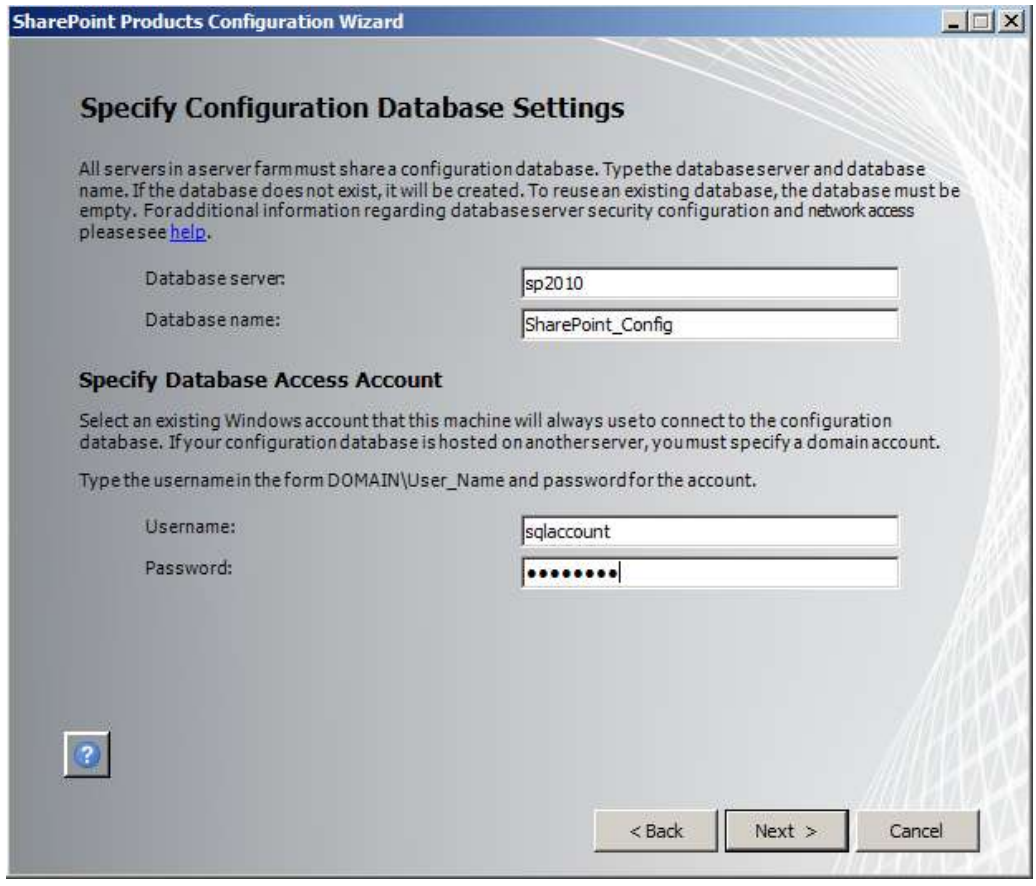

SharePoint Products Configuration Wizard
Specify Configuration Database Settings
All servers in a server farm must share a configuration database. Type the database server and database name. If the database does not exist, it will be created. To reuse an existing database, the database must be empty. For additional information regarding database server security configuration and network access please see help.
Database server:
sp2010
Database name:
SharePoint_Config
Specify Database Access Account
Select an existing Windows account that this machine will always use to connect to the configuration database. If your configuration database is hosted on another server, you must specify a domain account.
Type the username in the form DOMAIN\User_Name and password for the account.
Username:
sqlaccount
Password:
< Back
Next >
Cancel

Figure 93: *Specify configuration database settings*

See following article if you want to use local account instead of domain account for SQL:

http://sharepoint.microsoft.com/blogs/fromthefield/Lists/Posts/Post.aspx?ID=112

173. You will have to enter a passphrase in this step. This is a magic passphrase and installation cannot continue unless you provide this special passphrase. Enter "opensesame" in both boxes and click **Next**. Well, I was just joking. You can enter anything as a passphrase but this passphrase must meet the minimum complexity requirements otherwise you will get following error:

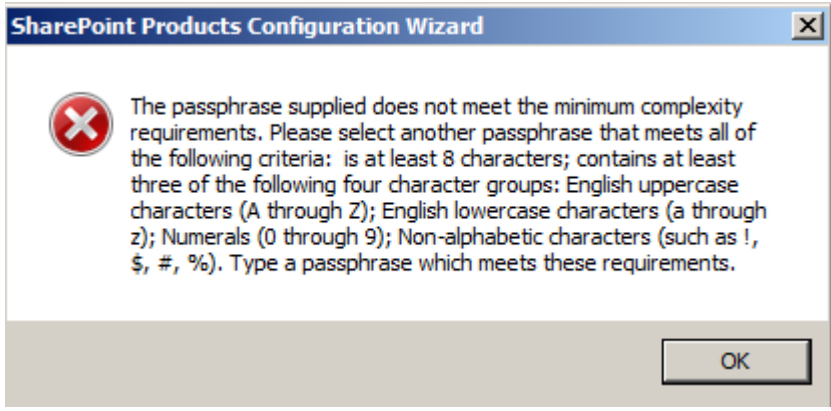

SharePoint Products Configuration Wizard
The passphrase supplied does not meet the minimum complexity requirements. Please select another passphrase that meets all of the following criteria: is at least 8 characters; contains at least three of the following four character groups: English uppercase characters (A through Z); English lowercase characters (a through z); Numerals (0 through 9); Non-alphabetic characters (such as !, $, #, %). Type a passphrase which meets these requirements.
OK

Figure 94: *Passphrase should meet minimum complexity requirements*

You can use something like "OpenSesame2010". This passphrase is required to secure farm configuration data and for each server that joins the farm. The passphrase can be changed later. Click **Next**.

SharePoint Products Configuration Wizard
Specify Farm Security Settings
Please enter a new passphrase for the SharePoint Products farm. This passphrase is used to secure farm configuration data and is required for each server that joins the farm. The passphrase can be changed after the farm is configured.
Passphrase:
Confirm passphrase:
< Back
Next >
Cancel

Figure 95: *Specify farm security settings*

174. Keep default settings and click **Next**.

SharePoint Products Configuration Wizard
Configure SharePoint Central Administration Web Application
A SharePoint Central Administration Web Application allows you to manage configuration settings for a server farm. The first server added to a server farm must host this web application. To specify a port number for the web application hosted on this machine, check the box below and type a number between 1 and 65535. If you do not specify a port number, a random one will be chosen.
Specify port number:
41907
Configure Security Settings
Kerberos is the recommended security configuration to use with Integrated Windows authentication. Kerberos requires special configuration by the domain administrator. NTLM authentication will work with any application pool account and the default domain configuration. Show me more information.
Choose an authentication provider for this Web Application.
NTLM
Negotiate (Kerberos)
< Back
Next >
Cancel

Figure 96: *Configure SharePoint Central Administration Web Application*

You can change the port number of Central Administration web application if you like. The only reason why someone would bother to change it is to use an easy to remember port number.

175. Click **Next**.

Figure 97: *Review configuration settings*

Configuration will start. Screen will look like the following:

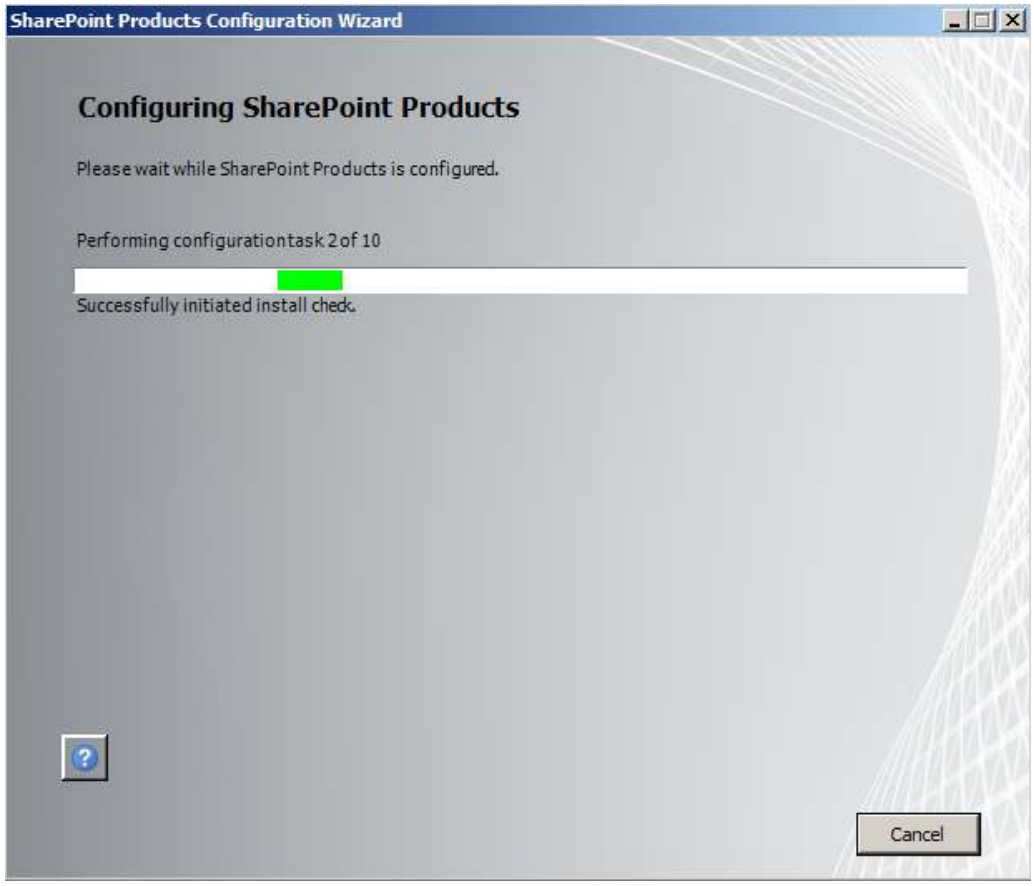

SharePoint Products Configuration Wizard
Configuring SharePoint Products
Please wait while SharePoint Products is configured.
Performing configuration task 2 of 10
Successfully initiated install check.
Cancel

Figure 98: *Configuration in progress*

176. Click **Finish**.

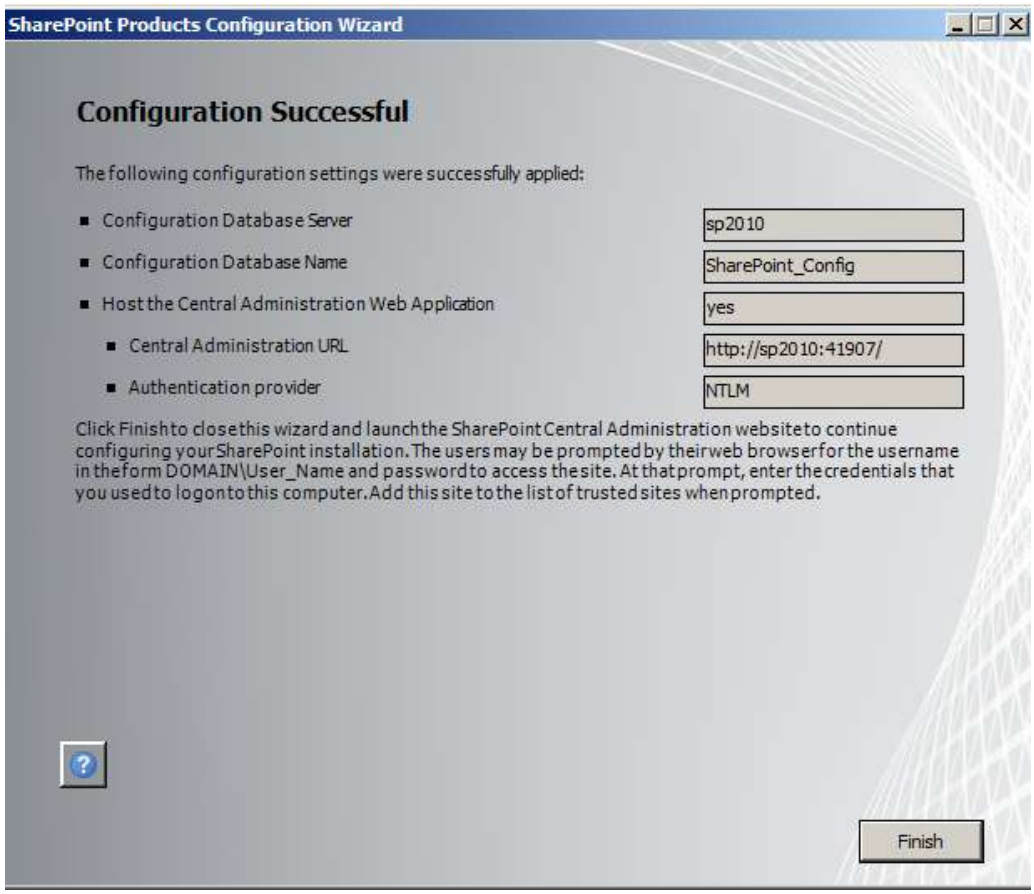

SharePoint Products Configuration Wizard
Configuration Successful
The following configuration settings were successfully applied:
Configuration Database Server
sp2010
Configuration Database Name
SharePoint_Config
Host the Central Administration Web Application
yes
Central Administration URL
http://sp2010:41907/
Authentication provider
NTLM
Click Finish to close this wizard and launch the SharePoint Central Administration website to continue configuring your SharePoint installation. The users may be prompted by their web browser for the username in the form DOMAIN\User_Name and password to access the site. At that prompt, enter the credentials that you used to logon to this computer. Add this site to the list of trusted sites when prompted.
Finish

Figure 99: *Configuration successful*

Following is the first screen that you see after the configuration has ended:

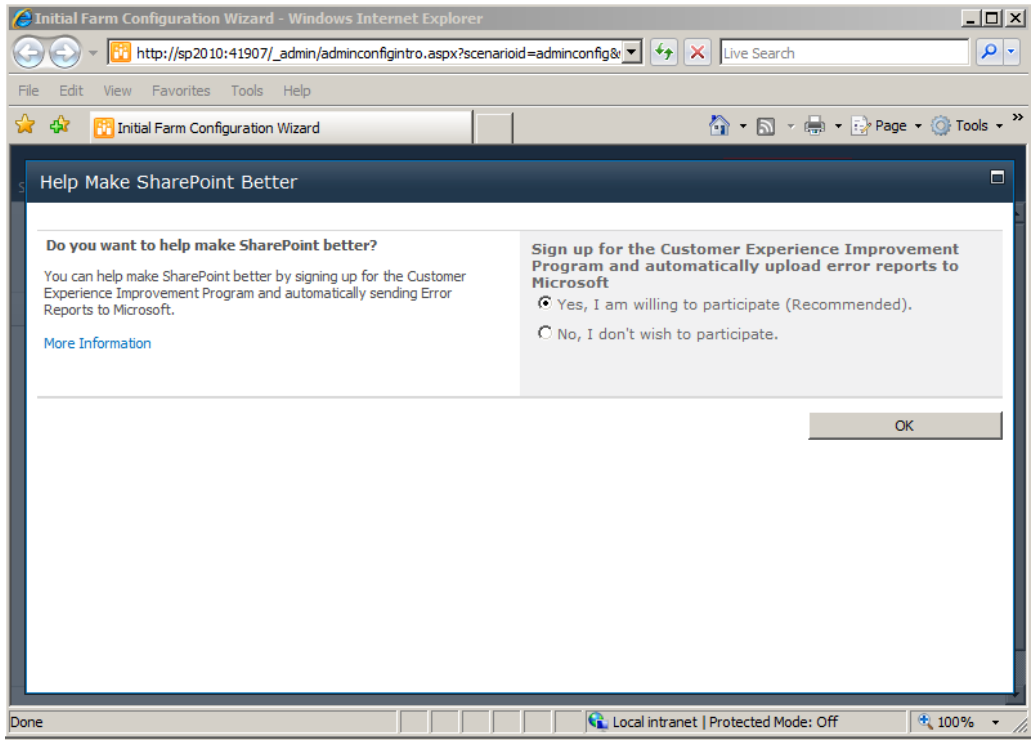

Initial Farm Configuration Wizard - Windows Internet Explorer
http://sp2010:41907/_admin/adminconfigintro.aspx?scenarioid=adminconfig&
Live Search
File Edit View Favorites Tools Help
Initial Farm Configuration Wizard
Page Tools
Help Make SharePoint Better
Do you want to help make SharePoint better?
You can help make SharePoint better by signing up for the Customer Experience Improvement Program and automatically sending Error Reports to Microsoft.
More Information
Sign up for the Customer Experience Improvement Program and automatically upload error reports to Microsoft
Yes, I am willing to participate (Recommended).
No, I don't wish to participate.
OK
Done
Local intranet | Protected Mode: Off
100%

Figure 100: *SharePoint configuration*

Congratulations, SharePoint has been setup.

Configuring SharePoint

1. First screen that you see after the SharePoint installation has completed is as following:

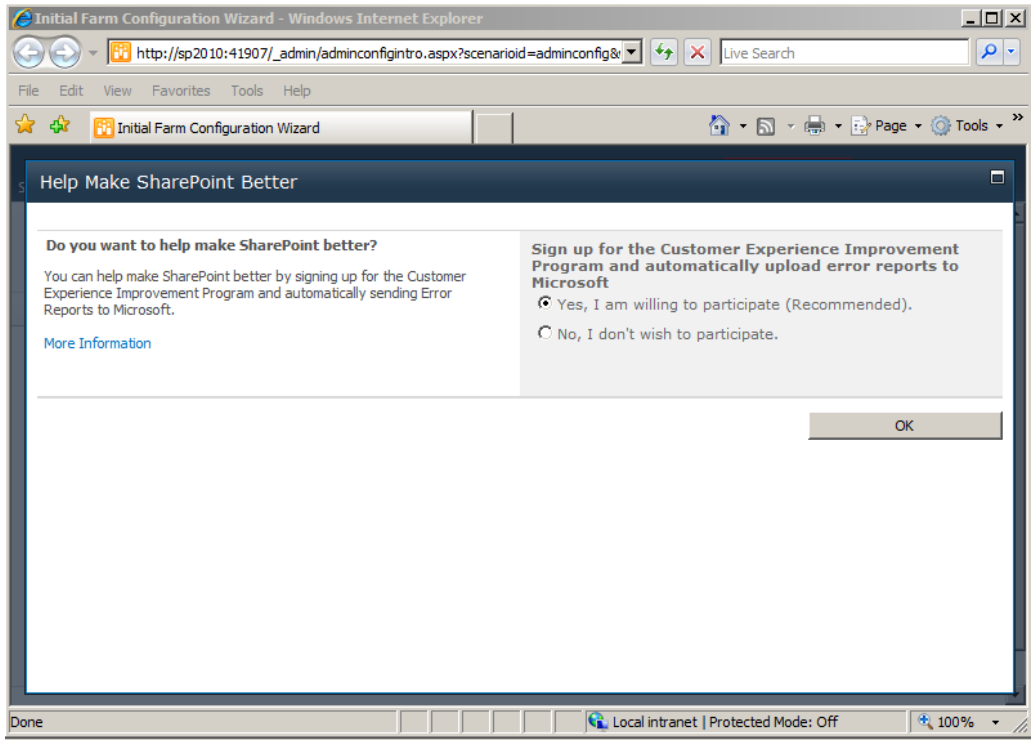

Initial Farm Configuration Wizard - Windows Internet Explorer
http://sp2010:41907/_admin/adminconfigintro.aspx?scenarioid=adminconfig&
Live Search
File Edit View Favorites Tools Help
Initial Farm Configuration Wizard
Page Tools
Help Make SharePoint Better
Do you want to help make SharePoint better?
You can help make SharePoint better by signing up for the Customer Experience Improvement Program and automatically sending Error Reports to Microsoft.
More Information
Sign up for the Customer Experience Improvement Program and automatically upload error reports to Microsoft
Yes, I am willing to participate (Recommended).
No, I don't wish to participate.
OK
Done
Local intranet | Protected Mode: Off
100%

Figure 101: *SharePoint configuration*

Select either **Yes** or **No** depending on your choice and click **Ok**.

You can open this central administration site in browser if you know the URL. During installation and configuration, you are asked to select a port for this central administration web application. If you don't remember the URL, you can open the site by going to Start > All Programs > Microsoft SharePoint 2010 Products > SharePoint 2010 Central Administration.

Figure 102: *Run central administration web application*

2. Click **Next**.

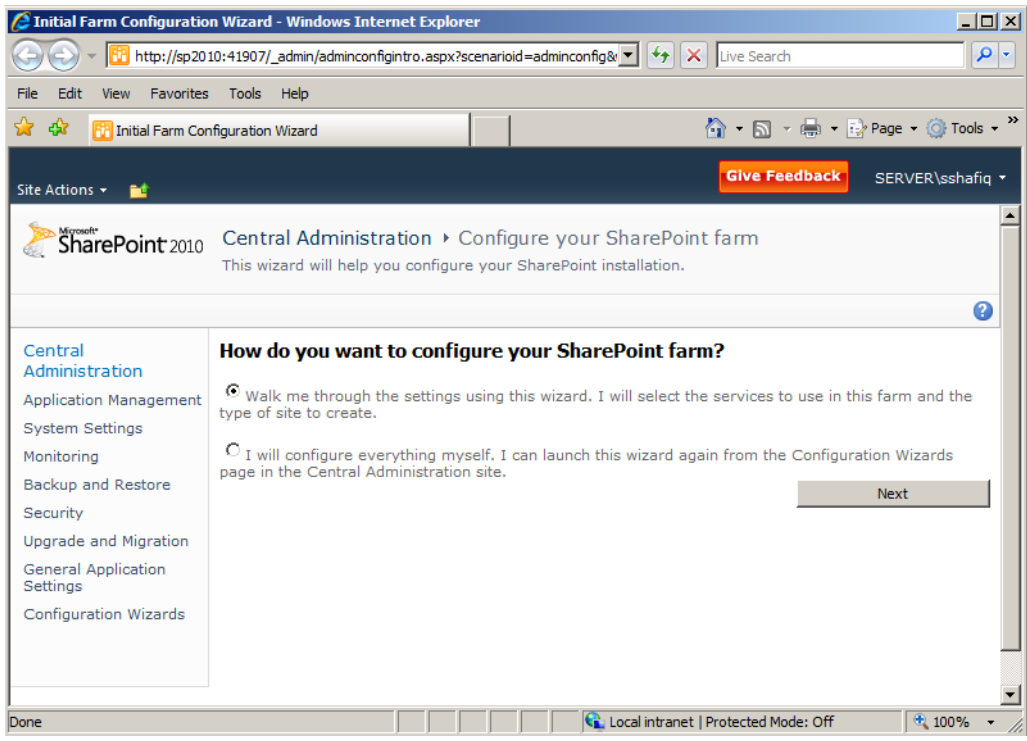

Initial Farm Configuration Wizard - Windows Internet Explorer
http://sp2010:41907/_admin/adminconfigintro.aspx?scenarioid=adminconfig&
Live Search
File Edit View Favorites Tools Help
Initial Farm Configuration Wizard
Page Tools
Site Actions
Give Feedback
SERVER\sshafiq
SharePoint 2010
Central Administration ▸ Configure your SharePoint farm
This wizard will help you configure your SharePoint installation.
Central Administration
Application Management
System Settings
Monitoring
Backup and Restore
Security
Upgrade and Migration
General Application Settings
Configuration Wizards
How do you want to configure your SharePoint farm?
Walk me through the settings using this wizard. I will select the services to use in this farm and the type of site to create.
I will configure everything myself. I can launch this wizard again from the Configuration Wizards page in the Central Administration site.
Next
Done
Local intranet | Protected Mode: Off
100%

Figure 103: *Run configuration wizard*

3. If you have already created a managed account for services account, select second option **Create new managed account** and enter username and password and click **Next**. If you have not created the account already you can create a new one. See steps 4 - 12 to create a new account or skip to step 13 to continue with the wizard. If you select second option **Create new managed account** and enter username and password that do not exist, you will get following error:

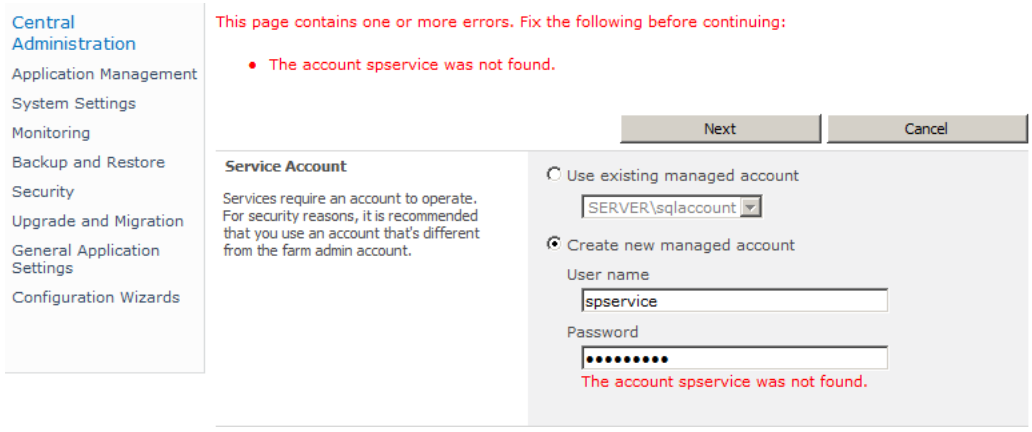


Figure 104: *Add service account*

4. Start **Server Manager** (Start > Administrative Tools > Server Manager).
5. Right-click **Users** (Roles > Active Directory Domain Services > Active Directory Users and Computers > [your server FQDN] > Users) and select **New** and then **User**.

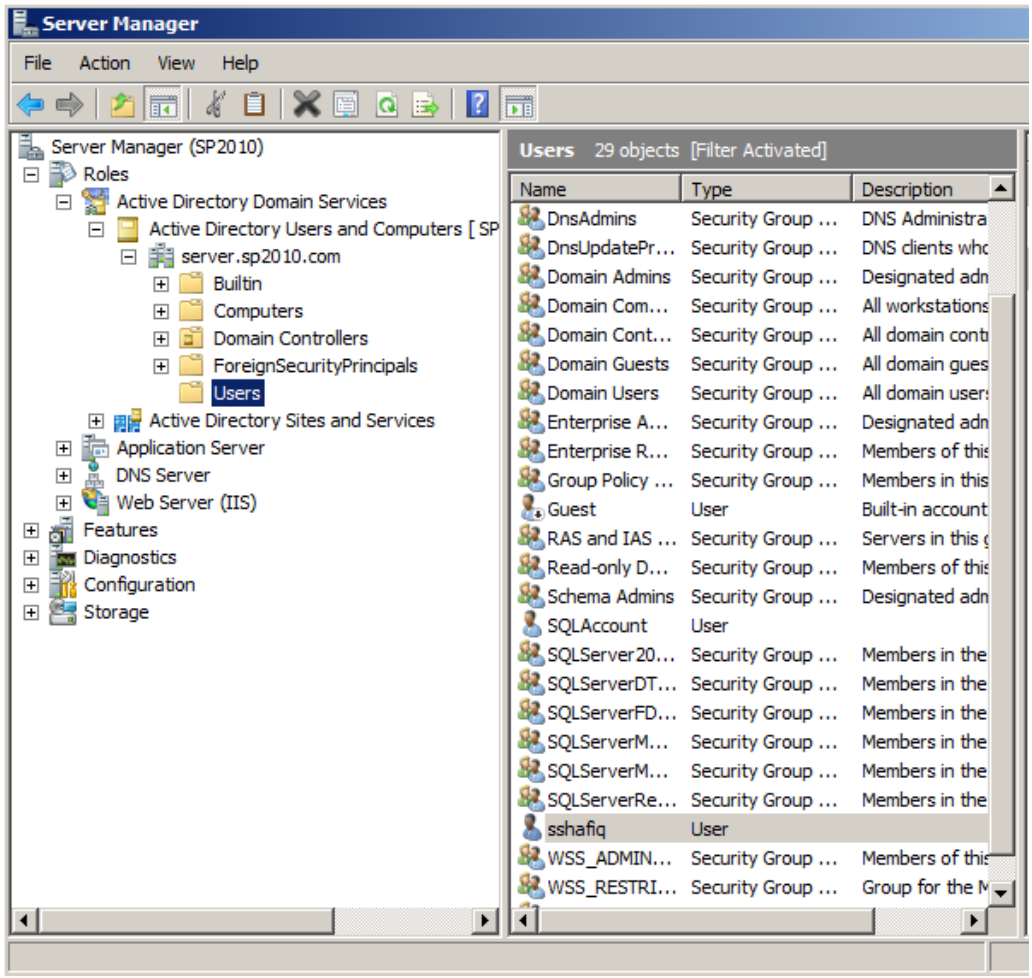

Server Manager
File Action View Help
Server Manager (SP2010)
Roles
Active Directory Domain Services
Active Directory Users and Computers [SP
server.sp2010.com
Builtin
Computers
Domain Controllers
ForeignSecurityPrincipals
Users
Active Directory Sites and Services
Application Server
DNS Server
Web Server (IIS)
Features
Diagnostics
Configuration
Storage
Users 29 objects [Filter Activated]
Name Type Description
DnsAdmins Security Group ... DNS Administra
DnsUpdatePr... Security Group ... DNS clients who
Domain Admins Security Group ... Designated adn
Domain Com... Security Group ... All workstations
Domain Cont... Security Group ... All domain contr
Domain Guests Security Group ... All domain gues
Domain Users Security Group ... All domain users
Enterprise A... Security Group ... Designated adn
Enterprise R... Security Group ... Members of this
Group Policy ... Security Group ... Members in this
Guest User Built-in account
RAS and IAS ... Security Group ... Servers in this g
Read-only D... Security Group ... Members of this
Schema Admins Security Group ... Designated adn
SQLAccount User
SQLServer20... Security Group ... Members in the
SQLServerDT... Security Group ... Members in the
SQLServerFD... Security Group ... Members in the
SQLServerM... Security Group ... Members in the
SQLServerM... Security Group ... Members in the
SQLServerRe... Security Group ... Members in the
sshafiq User
WSS_ADMIN... Security Group ... Members of this
WSS_RESTRI... Security Group ... Group for the M

Figure 105: *Create an account for SharePoint service*

6. Enter spservice in **First name** and **User logon name** and click **Next**.

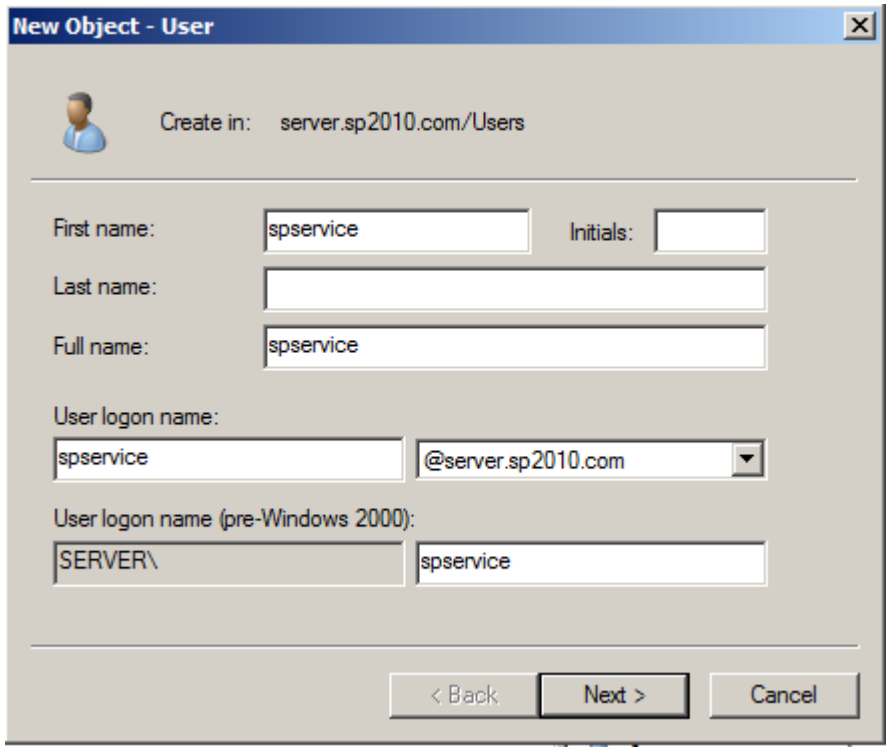


Figure 106: *Create new user*

7. Enter password that should meet minimum complexity requirements. Uncheck **User must change password at next logon** and check **Password never expires** and click **Next**.

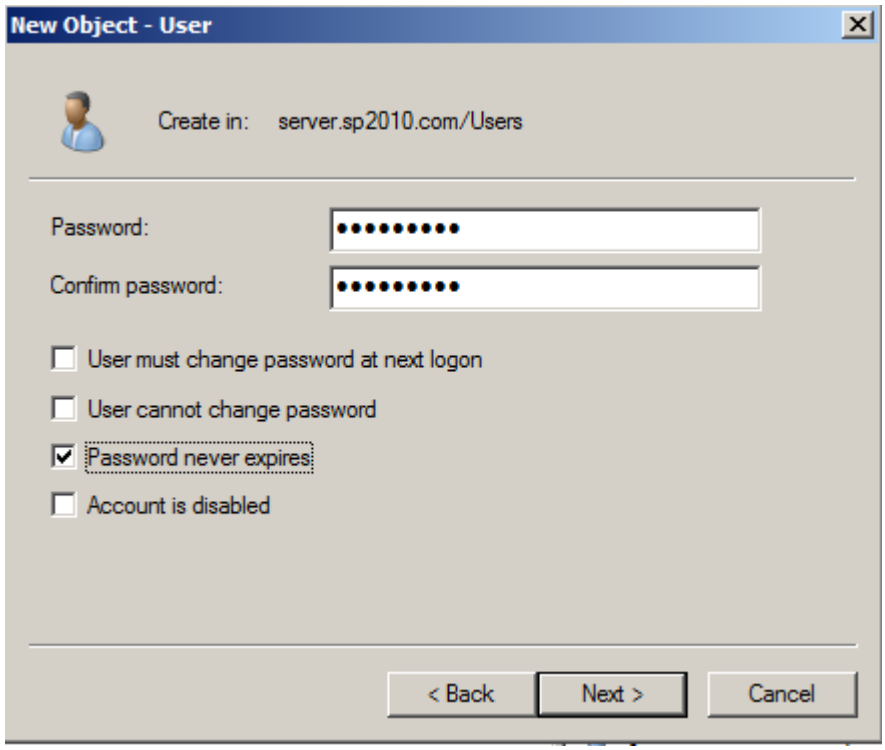


Figure 107: *Enter password*

8. Click **Finish**.

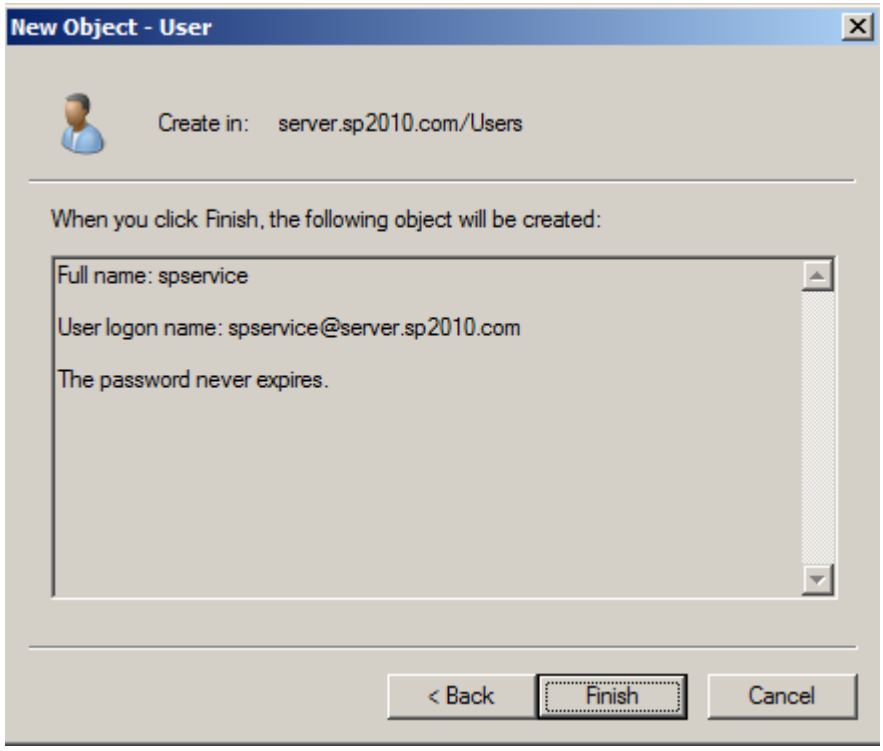


Figure 108: *Click "Finish" to create the user*

9. Right-click newly added user and select **Add to a group**.
10. Click **Advanced**.
11. Click **Find Now**.
12. Select **Administrators** and click **OK**.
13. Click **Next**.

Some users have reported that they get an error on this step. Error is as following:

The service application proxy "User Profile Service Application" could not be provisioned because of the following error: Unrecognized attribute …

Remember, the reason for failure given in the error message can be different for different users. You can create a user profile service application and service application proxy manually using the powershell script given on the following blog:

http://www.chakkaradeep.com/post/SharePoint-2010-and-PowerShell-e28093-Made-for-Each-Other!.aspx

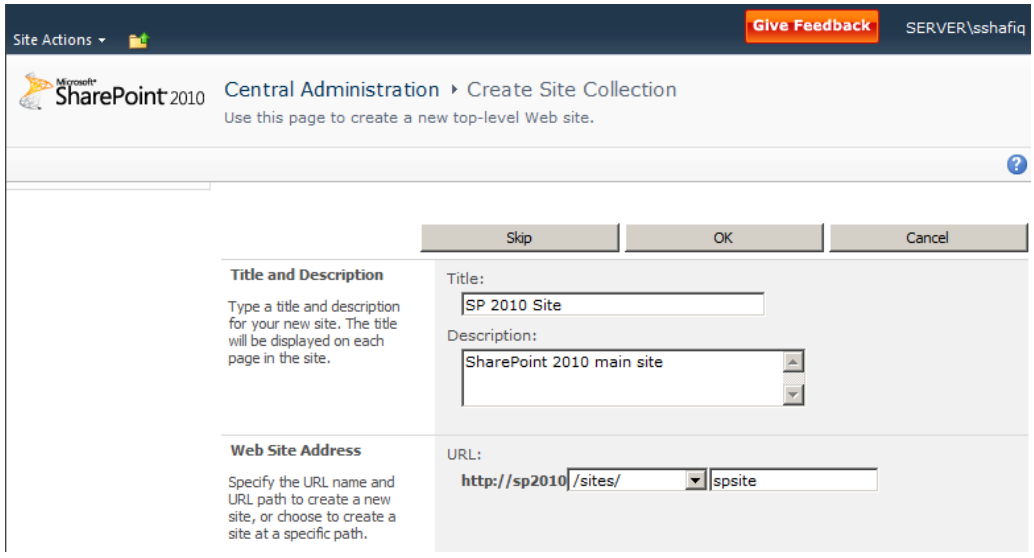

Site Actions
Give Feedback
SERVER\sshafiq
SharePoint 2010
Central Administration ▸ Create Site Collection
Use this page to create a new top-level Web site.
Skip
OK
Cancel
Title and Description
Type a title and description for your new site. The title will be displayed on each page in the site.
Title:
SP 2010 Site
Description:
SharePoint 2010 main site
Web Site Address
Specify the URL name and URL path to create a new site, or choose to create a site at a specific path.
URL:
http://sp2010/
/sites/
spsite

Figure 109: *Create site collection*

Enter a title and description. Select /sites/ from the drop down in the Web Site Address section and enter a name for your site. Select **Document Workspace** from the "Collaboration" tab and click **OK**.

14. You will see following message and screen after your site has been created:

This completes the Farm Configuration Wizard. Your SharePoint farm has been configured as below:

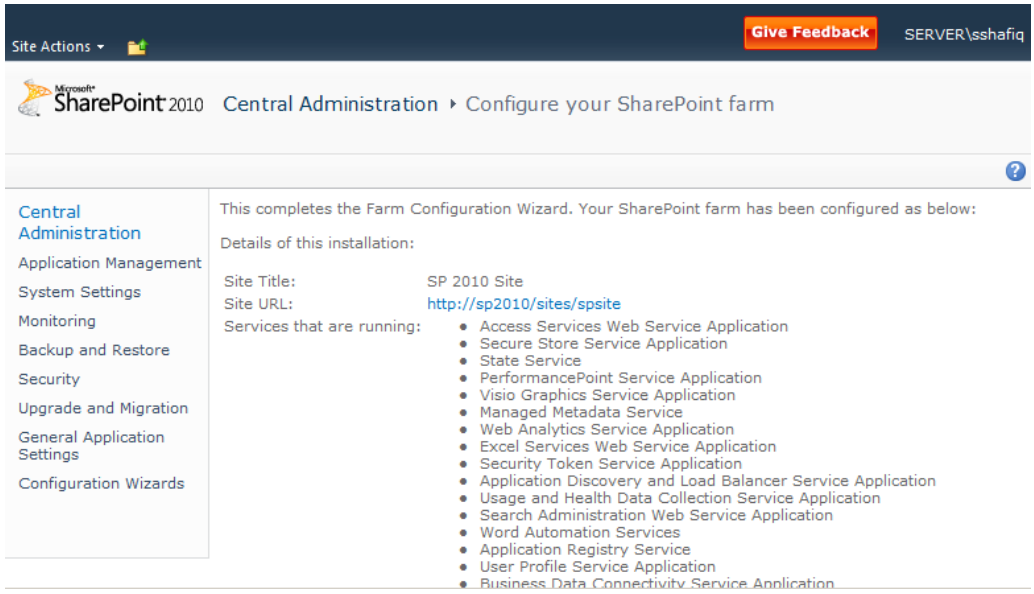


Figure 110: *Configure your SharePoint farm*

15. Click on the site URL to open the site. Your site will look like this:

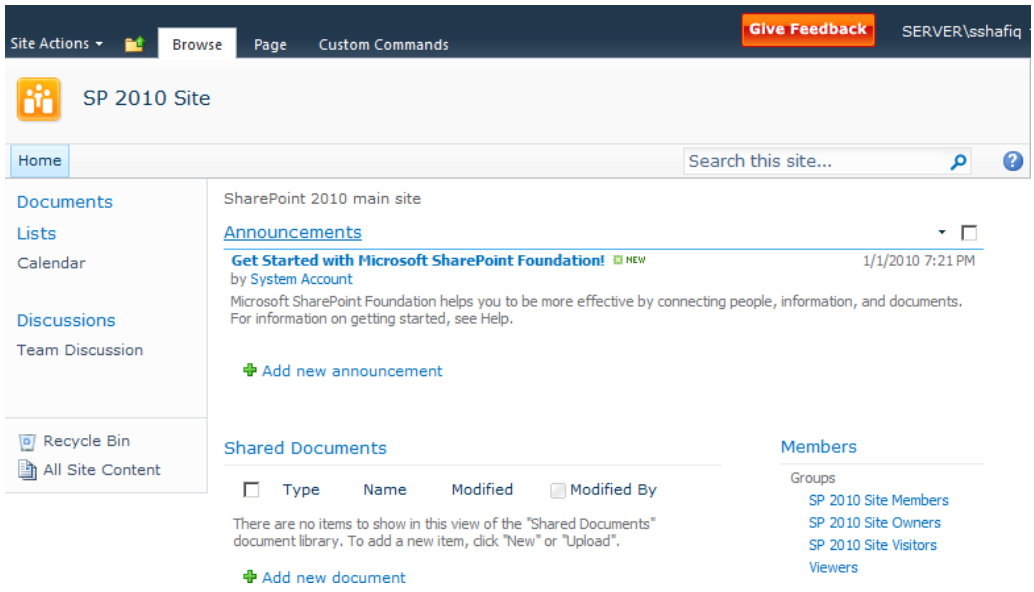


Figure 111: *SharePoint site*

Congratulations, you have just created your first SharePoint 2010 site.

Installing and Configuring SharePoint 2010

This step by step book shows how to install SharePoint 2010 on a virtual machine. Each step shows a screenshot that will help users to better understand the step. Host computer used during the preparation of this guide was a Vista (32-bit) machine (IBM 64-bit). Guest machine used was VMware workstation 7.0.

The book lists hardware and software requirements. It has up-to-date links to download pre-requisite software. Pre-requisite software has to be installed in a particular order. Guide gives you tips on what to avoid during the installation. This is the most comprehensive compilation of SharePoint 2010 installation steps.

This book provides users accurate links to download the prerequisite software. Anyone can install SharePoint but installing it the right way, first time is different. Only a few manage to do that. You don't have to waste time experimenting yourself. Learn from the mistakes others made when learning the installation. Save time, time is money!!

- Learn how to **enable virtualization** on your machine
- Learn how to **enable virtualization technology in BIOS**
- Learn how to **configure VMware**
- Learn what **hotfixes** to download and install.
- Learn to install **Active Directory Domain Services**
- Learn to create **service accounts in AD**
- Learn to install **SQL Server 2008**
- Learn to **install SharePoint**
- Learn to **configure SharePoint**
- **Create your first SharePoint site within minutes**

Saifullah Shafiq

ISBN 978-1-4276-4536-4